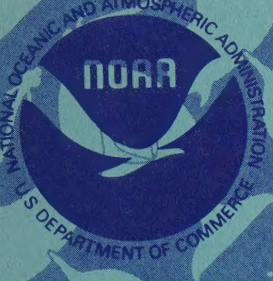
LJ-81-25



SOUTHWEST FISHERIES CENTER

NATIONAL MARINE FISHERIES SERVICE
SOUTHWEST FISHERIES CENTER
P.O. BOX 271
LA JOLLA, CA 92038

NOVEMBER 1981

SOUTHWEST FISHERIES CENTER CURRENT YEAR OPERATING PLANS FOR FISCAL YEAR 1982

by

David Mackett

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ADMINISTRATIVE REPORT LJ-81-25

National Marine Fisheries Service

Southwest Fisheries Center

Current Year Operating Plans

for

Fiscal Year 1982

The Current Year Task Plans (CYOP) of the Southwest Fisheries Center set out the objectives, significance or justification, staff, resources, activities and outputs for each project (Task) undertaken by the Center during the fiscal year. In several cases two or more Tasks may constitute elements of a larger program.

The CYOPs are presented in Reference Number sequence which, through the process of adding, deleting, and consolidating Tasks over the years no longer has any other organizational or subject matter significance.

Summary listings by Reference Number sequence and for Tasks within each Laboratory or Division are presented. These listings also contain the latest budget allowances for each Task; in some cases, there are significant changes from earlier budget estimates shown on the forms.

The CYOPs are plans and as such represent the best estimates that the staff could make during August 1980. The user is cautioned to use the data only as early estimates; details of budget or program changes put into effect since October 9, 1981 can be obtained from the Center Director.

Finally, the detailed budget allocations among labor, contracts, travel, etc., have been eliminated to preserve the Government's competitive procurement process. Authorized individuals of the National Marine Fisheries Service can obtain the latest budget figures from the SWFC's Financial Reporting System.

David Mackett
Program Planning Officer
Southwest Fisheries Center
La Jolla, California

SWFC Administrative Report No. LJ-81-25

SOUTHWEST FISHERIES CENTER

FY 1982

CURRENT YEAR OPERATING PLANS

Reference No.	Title	CYOP FTP FTE/$K
SWC-001.00	Coastal Eastern Pacific: Population Biology of Fishes	11/507.8
SWC-002.00	Experimental Ecology of Tunas	3.5/238.0
SWC-004.00	Coastal Eastern Pacific Fisheries Environment Investigations	4/169.6
SWC-008.00	Assessment of Dolphin Populations for Management	4.1/462.1
SWC-011.00	Research on the Biology of Dolphins for Stock Assessment	6/318.3
SWC-017.00	North Pacific Albacore and Billfish Stock Assessment	6/317.4
SWC-018.00	Ecology and Taxonomy of Fishes of the California Current	4/157.7
SWC-019.00	Coastal Eastern Pacific Fisheries Resources Investigations	6/346.3
SWC-020.00	Survey Systems Development and Evaluation	2/124.5
SWC-021.00	Stock Assessment and Population Dynamics - Pelagic Resources	2/ 84.7
SWC-025.00	Pelagic Resources Investigations	3.5/193.3
SWC-030.00	Assessment of Tropical Tuna Stocks for Management	7.5/349.5
SWC-035.00	General Support - Management Fund	34.1/1900.3
SWC-036.00	Southwest Regional Data Management and ADP	4.6/308.7
SWC-037.00	Illustrative Services, La Jolla	3/ 86.6
SWC-040.00	Data Management and Technical Services	3/175.8
SWC-044.00	Insular Ecosystem Study Task	4/236.0

SWC-046.00	Editorial and Illustration	1/ 44.1
SWC-057.00	Marine Mammal Mortality and Data Management	3.3/341.7
SWC-060.00	Striped Bass: Sources of Early Mortality	6/181.9
SWC-061.00	Underutilized Fishery Resources	3/160.6
SWC-062.00	Groundfish Resource Assessment and Fishery Analysis	2/124.1
SWC-064.00	Predator-Prey Relations and Other Multispecies Systems that Influence Community Structure	3.9/201.8
SWC-088.00	ADP-Tiburon	1/ 38.6
SWC-089.00	Fishery Management Research Program (Core Program)	7/272.6
SWC-090.00	Ocean Climatology and Monitoring	2/101.0
SWC-091.00	Commercial and Recreational Fisheries Research for Management	5/402.8
SWC-092.00	Fishery/Environmental Modeling and Forecasting	7/329.7
SWC-096.00	Assessment of Coastal Marine Mammals for Management	2/254.3
SWC-110.00	Pacific Observer Program	0/ 52.0
SWC-115.00	Resource Assessment Investigation of the Mariana Archipelago	6/325.6
SWC-119.00	Marine Mammal and Endangered Species Investigation	2/112.0
SWC-123.00	Fishery Information Network	1.4/304.2

SOUTHWEST FISHERIES CENTER

FY 1982

CURRENT YEAR OPERATING PLANS

Laboratory/Division	Reference No.	Title	*Budget Allowances as of October 9, 1981
Management	SWC-035.00	Director's Office, General Support, La Jolla - Management Fund - Reserve	1,190.0
	SWC-036.00	Southwest Regional Data Management and ADP	308.7
	SWC-037.00	Illustrative Services, La Jolla	86.6
	SWC-123.00	Fishery Information Network	304.2
Coastal	SWC-001.00	Coastal Eastern Pacific: Population Biology of Fishes	507.8
	SWC-004.00	Coastal Eastern Pacific Fisheries Environment Investigations	169.6
	SWC-018.00	Ecology and Taxonomy of Fishes of the California Current	157.7
	SWC-019.00	Coastal Eastern Pacific Fisheries Resources Investigations	346.3
	SWC-020.00	Survey Systems Development and Evaluation	124.5
	SWC-091.00	Commercial and Recreational Fisheries Research For Management	402.8
Oceanic			
(Marine Mammal)	SWC-008.00	Assessment of Dolphin Populations for Management	462.1
	SWC-011.00	Research on the Biology of Dolphins for Stock Assessment	318.3
	SWC-057.00	Marine Mammal Mortality and Data Management	341.7
	SWC-096.00	Assessment of Coastal Marine Mammals for Management	254.3

* Includes RIF Mitigation Funds

Oceanic (Tuna)	SWC-017.00	North Pacific Albacore and Billfish Stock Assessment	317.4
	SWC-030.00	Assessment of Tropical Tuna Stocks for Management	349.5
Tiburon	SWC-035.00	General Support - Management Fund	263.7
	SWC-060.00	Striped Bass: Sources of Early Mortality	181.9
	SWC-061.00	Underutilized Fishery Resources	160.6
	SWC-062.00	Groundfish Resource Assessment and Fishery Analysis	124.1
	SWC-064.00	Predator-Prey Relations and Other Multispecies Systems that Influence Community Structure	201.8
	SWC-088.00	ADP - Tiburon	38.6
Honolulu	SWC-002.00	Experimental Ecology of Tunas	238.0
	SWC-021.00	Stock Assessment and Population Dynamics - Pelagic Resources	84.7
	SWC-025.00	Pelagic Resources Investigations	193.3
	SWC-035.00	General Support - Management Fund	446.6
	SWC-040.00	Data Management and Technical Services	175.8
	SWC-044.00	Insular Ecosystem Study Task	236.0
	SWC-046.00	Editorial and Illustration	44.1
	SWC-089.00	Fishery Management Research Program (Core Program)	272.6
	SWC-110.00	Pacific Observer Program	52.0
	SWC-115.00	Resource Assessment Investigation of the Mariana Archipelago	325.6
	SWC-119.00	Marine Mammal and Endangered Species Investigation	112.0
PEG	SWC-090.00	Ocean Climatology and Monitoring	101.0
	SWC-092.00	Fishery/Environmental Modeling and Forecasting	329.7

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FMC	REF. NO.	ADD. ID.
SWC	001.00	
TOTAL FTE (FTP)/TOTAL $(K)		
11/503.0		

FY 1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 15, 1981
PAGE
1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	REQUIREMENT
Izadore Barrett, Director	LA JOLLA	CA	J.R.	HUNTER	YES / NO

TITLE: Coastal Eastern Pacific: Population Biology of Fishes

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
	88A3H4				
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES (computer T2)					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER (CalCOFI)					
TOTAL DIRECT FUNDS					503.0
FTE (FTP)					11.0
FTE (OTFTP)					2.6

GOAL/OBJECTIVE ALLOCATION	NG NO SO	NG NO SO	NG NO SO	NG NO SO
	A 1 1 2,3,4			
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	. . .	. . .	. . .	. . .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	. . .	. . .	. . .	. . .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	. . .	. . .	. . .	. . .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				

NMFS HQ. USE ONLY

ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	001.00	
TOTAL POS./TOTAL $(K)		
11/503.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The objectives of this program are: 1) to determine environmental and population effects on parameters used for stock assessment of anchovy and other pelagic fishes; 2) to develop statistical and mathematical procedures and sampling designs required for accurate biomass assessment in anchovy and other species; 3) to provide biological data needed for assessment of the biomass of anchovy populations; and 4) to identify and estimate the parameters that determine the numbers of fish recruited annually in the anchovy population and to develop management strategies and models that include recruitment variability. This work involves a close linkage between laboratory, field and mathematical studies at all life stages from the production of eggs by adults through larval and juvenile stages.. Current year activities include: studies on the factors that affect larval survival; measurement of food requirements of larval fishes in the laboratory and the incidence of starvation in the sea; use of satellite photographs to define optimal larval foraging areas; identification of the optimal time of the spawning season for larval survival by determining the birthdate distributions of the recruits; estimates of reproductive parameters for the annual anchovy biomass estimate and calibration of biomass estimates based on the larval index method to one based on the new egg production method.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Measurements of performance of the task include, production of various scientific manuscripts (see event schedules), completion of two chapters on fecundity and spawning frequency estimation for a manual on the egg production method for biomass assessment and parameter estimates for the 1982 biomass estimate of anchovy (fecundity, sex ratio, spawning frequency).

LIC	REF. NO.	ADD. ID.
SWC	001.00	
TOTAL POS./TOTAL $(K)		
11/503.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT
(dollar amount in thousands)

DATE
August 15, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

This task annually provides estimates of biological parameters essential for estimation of the spawning biomass of the northern anchovy population (fecundity, spawning frequency, sex ratio, fish weight). An annual estimate is required by Department of Commerce regulations. The task also continues to refine methods of analysis and theory for the biomass estimate to provide a continuing improvement in the accuracy and precision of the estimate at lower coast. Using historic data it establishes relation to past and less accurate biomass estimates so that a time series of abundance can be provided. These activities are required for a revision of the anchovy management plan requested by the Fishery council. Studies on recruitment, larval ecology, growth and reproduction in the anchovy are essential for development of new population models and management strategies.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this task were not continued we would be unable to meet Department of Commerce regulations requiring an annual biomass estimate for the northern anchovy nor provide calibration of past indices of anchovy abundance, an essential step in the revised anchovy management plan required by the Pacific Fishery Management Council (PFMC). We would also be unable to continue the development of new population models for anchovy and other species which would serious handicap our abilities to manage pelagic fish stocks in this region as required by the Magnuson Bill (FCMA).

FMC	REF. NO.	ADD. ID
SWC	001.00	
TOTAL POS/TOTAL $(K)		
11/503.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
August 15, 1981
PAGE
4 OF 5

POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Physiologist	15	Lasker, R.	50117	1
Fishery Biologist	14	Hunter, J.	41716	1
Oceanographer	12	Owen, R.	66505	1
Fishery Biologist	12	Alvariño, A.	01366	1
Mathematician	13	Lo, N.	52866	1
Fishery Biologist	12	Theilacker, G.	47013	1
Fishery Biologist	11	Leong, R.	51575	1
Fishery Biologist	9	Paloma, P.	03736	1
Fishery Biologist	9	Kimbrell, C.	46460	1
Biological Technician	9	Lynn, E.	54011	1
Secretary	6	Shoemaker, J.	40713	1

SWC	001.00	
TOTAL POS./TOTAL $(K)		
11/503.0		

FY1982

CURRENT YEAR OPERATIONS PLAN

MILESTONE - ACTIVITY - EVENT PLANNING CHART

(dollar amount in thousands)

DATE

August 15, 1981

PAGE

5 OF 5

MG	MO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.4	O	Measure patchiness of larval food distribution and relate to larval survival.															
A	1	.4	O	Determine time & spatial coherence of the microdistribution of larval food organisms															
A	1	.4	O	Define relation between patchiness of larval food & controlling oceanic variables.															
A	1	.4	M	Manuscript: Physical & biological processes in relation to organism microstructure.				X											
A	1	.4	O	Develop and apply criteria for estimation of starvation of larvae in the sea.															
A	1	.3	O	Measure growth of larvae & juvenile fishes in the sea & estimate birthdate distribution of recruits.															
A	1	.3	M	Data report on albacore using otolith analysis.					X										
A	1	.4	O	Estimate energy requirements of larvae in the sea.															
A	1	.2	M	Provide annual estimates of reproductive parameters required for stock assessment of anchovy.					X										
A	1	.2	O	Determine effect of energy stores on egg production and spawning.															
A	1	.2	M	Produce chapters on fecundity and spawning frequency for a manual on egg production method of biomass estimation.					X										
A	1	.4	O	Determine effects of biotic and abiotic factors on growth and survival of larval fishes.															
A	1	.4	M	Manuscript: Visual threshold, action spectrum, & critical depth for feeding in larval anchovy.					X										
A	1	.2	O	Evaluate usefulness of satellite imagery of important environmental variables in egg and larval distribution and larval survival of northern anchovy and other fish species.															
A	1	.4	M	Provide a calibration between methods for revised management plan.					X										
A	1	.4	O	Relate larval index method of biomass estimation to egg production manual.		X													

FMC	FIN. NO.	ALD. ID.
SWC	002.00	

TOTAL FTE (FTP)/TOTAL $(K)

3.5/238.0

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 14, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Richard S. Shomura	Honolulu	HI	A.E.	Dizon	YES / NO

TITLE: Experimental Ecology of Tunas

TASK ALLOCATION	TASK # 1 88A2H700	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					238.0
FTE (FTP)					3.5
FTE (OTFTP)					3.0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	3									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	002.00	
TOTAL POS./TOTAL $(K)		
3.5/238.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES

DATE
August 6, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Experimental Ecology of Tunas Task will be continuing its investigations of energy transfer in tropical tunas. A portion of this study is funded by the National Science Foundation (a joint grant to Cal.Tech., the Universities of Michigan and Wisconsin, and to NMFS). We choose this topic because life history strategies concerning energy are the key to questions of distribution, abundance, growth, and recruitment for inhabitants of the energy-poor tropical pelagic domain.

Our task will also continue its attempts to breed and rear skipjack tuna in captivity. Induction of spawning is now a routine laboratory practice but we have only been able to rear the delicate larvae through 12 days. Information from this period is critical because success of any given year class of fish, is largly determined within the first several weeks of life.

Recently, investigators of this task have reached a milestone. Yellowfin tuna have been trained to reliably discriminate small changes in the Earth's magnetic field. Although there have been many attempts at conditioning animals to respond to the magnetic field, only two other teams have been successful. The responses of tunas are by far the most reliable and robust. We have located magnetic material (magnetite, common name lodestone) in tissue embedded in the snout. This may be the sensory material. Hopefully these investigations will illuminate how tunas navigate on transoceanic migrations. For an animal sensitive to it, the geomagnetic field provides reliable compass, clock and map information. Tuna seem to have sufficient magnetic material within their snout to do this. A comprehensive program has been initiated to study magnetoreception in pelagic animals and to explore its possible fishery implications.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Publication has always been our only specific output measure. If ongoing studies yield results, we intend to submit two manuscripts: i) extraction and identification of tuna biogenic magnetite and ii) correlations of 10 year magnetic k-index and Hawaiian pole-and-line tuna catch data. The energy transfer investigations will terminate in FY82 and several publications should result from the various studies. If we succeed in rearing skipjack tuna through metamorphasis, we will rush to print.

SWC	002.00	
TOTAL POS./TOTAL $(K)		
3.5/238.0		

CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 6, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

Investigators of the Experimental Ecology of Tunas Task study aspects of the behavior, physiology, and ecology of tropical tunas--yellowfin and skipjack tuna and kawakawa. This task supports the only facility in the world where tropical tunas are kept in captivity for experimental purposes. The Kewalo Basin Research Facility has been in existance since 1958 and most everything that is known about the basic biology of the tropical tuna has come from this laboratory. Tropical tunas represent the largest fishery resource in the world today. Anyone who is charged with managing, monitoring, or developing of tuna fisheries has a problem that current fishery models and practices cannot solve. The current call for multispecies analyses and for studies of optimal yield must be grounded on reliable basic biological data concerning habitat, energy needs, reproduction, and movements. These data can only come from the type of studies being conducted at Kewalo Basin today.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The scientists of this task do basic rather than applied, problem-oriented research. A long chain exists from our production of the biological knowledge and its eventual use by managers. Thus it is difficult to predict some dire consequence if our research programs are not continued. Basic research is a gamble; perhaps our magnetoreception study will yield some powerful management tool, perhaps not. Nevertheless, our program is very inexpensive relative to its research output per dollar. Considering the value of the tuna fishery and the political consequences surrounding its exploitation and management, the 23 year investment in the Kewalo Facility has yielded returns that far surpass cost.

FMC	REF. NO.	ADD. ID
SWC	002.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3.5/238.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 6, 1981
PAGE
4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Supervisory Fishery Biologist	13/4	Dizon, A. E.	22939	100
Fishery Biologist (General)	11/5	Chang, R. K. C.	15144	100
Fishery Biologist (General)	11/5	Kazama, T. K.	45665	100
Fishery Gear & Equipment Specialist	7/6	Teramoto, S.	88923	50

FMC	REF. NO.	ADD. ID.
SWC	002.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3.5/238.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 6, 1981
PAGE
5 OF 5

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.3	M	Energy transfer in skipjack tuna.		--	--	--	x	--	--	--	x						
A	1	.3	O	Breeding and rearing captive skipjack tuna.		--	--	--	--	--	--	--	--	--	x	--	x		
									cont		nuing								
A	1	.3	M	Magnetoreception in pelagic animals.		--	--	--	--	--	--	--	--	--	x	--	x		
									cont		nuing								
A	1	.3	O	Fishery correlations with the geomagnetic field.		x	--	--	--	--	--	--	x						
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		.																	

SwC	664.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4/177.7		

CURRENT YEAR OPERATING PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

1986

1 OF 6

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett, Director	LA JOLLA	CA	R.M.	LAURS	YES / XXX

TITLE: Coastal Eastern Pacific Fisheries Environment Investigations

TASK ALLOCATION	TASK # 1 88A4J1	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					177.7
FTE (FTP)					4.0
FTE (QTFTP)					1.0

GOAL/OBJECTIVE ALLOCATION	NG / NO / SO	NG / NO / SO	NG / NO / SO	NG / NO / SO
	A / 1 / 4			
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (QTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (QTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (QTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				

DOMS HQ. USE ONLY		
ACTION	DATE	INITIAL
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	004.00	
TOTAL POS./TOTAL $(K)		
4/177.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This is a comprehensive, multidisciplinary task to conduct studies on the distribution, availability and migration patterns of north Pacific albacore and associated environmental influences in the eastern North Pacific. A major element of these studies is the evaluation of fish-ocean relationships which is a necessary part of an albacore resource management model being developed in cooperation with OFRD, HBL and PEG. Some of these studies will be conducted in cooperation with the albacore industry including albacore fishery-oceanography research for investigation of distribution, availability, relative abundance and migration patterns of the southern substock during winter and albacore tagging experiments. Cooperative albacore environmental-physiology studies involving several institutions are coordinated by the task to gain understanding into causal factors underlying albacore-oceanography relationships important in determining migration, distribution and availability. In FY 1982 the primary emphasis will be upon the completion of a series of manuscripts and reports that will complete projects.

Fishery/environment research involving other North Pacific species, especially those endemic to the California Current, will be expanded to assume an increasingly important part of this task. Those techniques that proved successful in albacore/oceanography will be applied to other species. The task will assume a leading role in the expanding application of satellite remote sensing to the understanding of fish distribution and availability.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Improved understanding of the distribution, migration and availability of North Pacific albacore including the interrelationships of fish/fishery/environment as an ecosystem.

Improved understanding of albacore stock structures through experiments in physiology, tagging programs & biochemical methods.

Identification of marine environmental variables important to FCMA fishery management decisions and improve the understanding of the marine environment elements of ecosystems with the multispecies approach to management.

Expansion of studies in satellite remote sensing of ocean variables as applicable to understanding of fish distribution, abundance and availability.

FHC	REF. NO.	ADD. ID.
SWC	004.00	
TOTAL POS./TOTAL $(K)		
4/177.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 15, 1981
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The North Pacific albacore fishery is one of the most important and valuable U.S. fisheries. Albacore catches are worth about $40 million annually to U.S. fishermen. Over 6,000 fishermen are employed on 2,000 vessels. Supplies of foreign caught Pacific albacore imported into the U.S. are worth an additional $75 million to U.S. canners, at the wholesale level. The canned product of approximately 60,000 metric tons of Pacific albacore annually is worth perhaps $250-300 million at the retail level. U.S. consumers buy 125 million cans of Pacific albacore, and an additional 80 million cans of Atlantic albacore annually.

All of these economic, social and nutritional benefits depend on a viable U.S. fishery and reasonably priced imports which in turn rely on a healthy Pacific-wide albacore stock, capable of producing a high annual yield. All of these benefits can be put in jeopardy through inadvertent or wilful international and domestic overfishing. Conversely, the resource may be wasted through underharvesting whenever a surplus (beyond the minimum safe limit) remains after the annual harvest. At $1,800/ton this wastage could represent a significantly large loss in value. Therefore, accurate and precise measurements of the albacore stock and evaluations of the fisheries can have a very high benefit relative to the cost of the project. The products of the SWFC albacore project are designed 1) to provide the best scientific information about the albacore stocks and the foreign and domestic fisheries on them, and 2) to bring expert judgment to bear on the solution of problems and avoidance of future problems in maintaining this multi-million dollar industry and consumer benefits.

Satellite remote-sensing has become an increasingly important tool in the management of world resources. Local satellite receiving facilities having the most advanced technology provide the opportunity to apply this tool to a broad spectrum of fishery resource problems with a small to modest effort. Fisheries researchers and managers will benefit by the development of a comprehensive and timely capability to monitor large changes in the marine climate that might anticipate effects upon the fishery.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this program were not continued, we would not be able to produce the best possible description of the status of the North Pacific albacore stock and fisheries, and provide options for "managing" the albacore fishery with an estimate of the future biological, economic, environmental and social impacts of each option.
If there is no substantial pursuit of satellite studies applied to local fisheries, the opportunities will be lost to a) monitor the oceans in a truly synoptic mode, b) examine newly-revealed correlations of physical and biological parameters, and c) maintain the efficiency and effectiveness of targeting research vessels on ocean features in real-time based upon satellite images.

FMC	REF. NO.	ADD. ID
SWC	004.00	
TOTAL POS/TOTAL $(K)		
4/177.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
August 15, 1981
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POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Oceanographer	14	Laurs, R.M.	50315	1
Oceanographer	13	Lynn, R.	54029	1
Oceanographer	9	Bliss, K.	07941	1
Fishery Biologist	9	Nishimoto, R.	65301	1

SWC	004.00	
TOTAL POS./TOTAL $(K)		
.4/177.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
MILESTONE - ACTIVITY - EVENT PLANNING CHART
(dollar amount in thousands)

DATE
August 15, 1981
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MG	MO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	1	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.4	O	Carry on investigations dealing with oceanography and environmental influences on pelagic fishery resources in the California Current region.															
A	1	.4	O	Work with PEG on developing indices of oceanographic processes influencing albacore migration, distribution and availability for Bledsoe model.															
A	1	.4	M	MS on albacore vertical distribution and ocean temperature relationships based on acoustic tracking experiments.					X		X								
A	1	.4	M	MS on proposed albacore migration model and key oceanographic factors affecting migration.									X						
A	1	.4	M	MS in cooperation with PEG on albacore forecasting based on fishery-oceanography relationships.						X	X								
A	1	.4	M	Co-author several MSs on albacore environmental physiology.															
A	1	.4	M	Prepare report of results of 1981 albacore-oceanography studies conducted in cooperation with AFRF.					X	X									
A	1	.4	O	Complete study and MS on evaluation of daily ring increment method for aging albacore.							X								
A	1	.4	M	MS on albacore tagging results.					X										
A	1	.4	O	Complete study and produce MS on the winter distribution of the proposed southern substock of albacore in the eastern north Pacific based on 1981 field study and participation with AFRF in winter 1982 if they are awarded S-K funds.								X							
A	1	.4	M	MS on albacore CPUE in cooperation with OFRD and State albacore fishery biologists.									X						
A	1	.4	M	Complete CalCOFI physical oceanography atlas.								X							

SWC	004.00
TOTAL POS./TOTAL $(K)	
4/177.7	

FY1982

CURRENT YEAR OPERATIONS PLAN

MILESTONE - ACTIVITY - EVENT PLANNING CHART

(dollar amount in thousands)

DATE

August 15, 1981

PAGE

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WC	WO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	4	0	Maintenance of data collection systems in support of CalCOFI and other physical oceanography.															
A	1	4	0	Carry on investigations of satellite oceanography applications to fisheries research and fisheries management.															
A	1	4	0	Develop methodology to evaluate the utility of of satellite oceanography measurements in fisheries research and fisheries management.															
A	1	4	0	Utilize archived satellite data collected contemporaneously with CalCOFI and other cruises to conduct pilot studies in satellite/fishery oceanographic work.															
A	1	4	0	Participate in NASA/JPL satellite oriented observation program for commercial fisheries.															

LINE	DEPT. NO.	ADD. ID.
SWC	008.00	

TOTAL FTE (FTP)/TOTAL $(K)

4.1/462.1

FY 92

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 14, 1991

PAGE

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Isadore Barnett	La Jolla	CA	T.D.	Smith	YES XXXXX

TITLE: Assessment of dolphin populations for management.

TASK ALLOCATION	TASK # 1 88C4H1IA0	TASK # 2 88C4H1IB0	TASK # 3 88C4H1IC0	TASK # 4 88C4H1ID0	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					462.1
FTE (FTP)					4.1
FTE (OTFTP)					4.8

GOAL/OBJECTIVE ALLOCATION	NG C	NO 2	SO .3	NG C	NO 2	SO .3	NG C	NO 2	SO .3	NG C	NO 2	SO .3
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	008.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.1/462.1		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This task is one of three (10, 8, 57) closely linked tasks involving research on dolphins associated with the eastern tropical Pacific tuna fishery. These tasks collect fishery and biological data in order to assess the condition of the dolphin populations and their response to levels of take (mortality). Task provides annual status of stocks report and information on biological impacts of management to NMFS as mandated by the MMPA. Main focus of task is development of population parameter estimates, especially population size estimation and reproductive and natural mortality rates, to conduct a thorough assessment of stock condition in late 1984 when re-issuance of permits for take is scheduled.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

In FY82 we will complete analyses of an aerial dolphin sighting experiment conducted in FY81; develop and conduct a shipboard dolphin sighting experiment; initiate analysis of this latter experiment; and complete analysis of sampling biases in tuna vessel biological data. Three technical papers will be completed, and an update on population status will be issued for consideration by NMFS officials.

FMC	REF. NO.	ADD. ID.
SWC	008.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.1/462.1		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

An assessment of the status of the dolphin populations is a key requirement in NMFS administration of the MMPA and in determination of allowable dolphin mortality by tuna fishing in the eastern tropical Pacific. Without scientifically sound assessments and an ongoing monitoring of the populations' status, the impact of the incidental allowable mortality can not be determined and permits for take would not be granted. The effect could be devastating to the tuna industry since more than 50% of the U.S. catch of yellowfin tuna is from porpoise-associated schools.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Discontinuing this task will force reliance solely on historical information of marginal value in evaluating effects in a dynamic situation. The result will be weakened scientific basis to justify regulations that affect a multi-million dollar industry. It will also increase the risk of promulgating poor regulations that could either seriously damage the tuna industry or the dolphin stocks.

FMC	REF. NO.	ADD. ID
SWC	008.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.1/462.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Research)	14/3	Smith, T.D.	83324	67
Fishery Biologist (Research Administration)	15/3	Sakagawa, G.	76940	100
Operations Research Analyst	13/1	Holt, R.	40072	100
Industrial Economist	12/3	Herrick, S.	38193	50
Fishery Biologist (Research)	12/6	Jennings, J.	43186	100

FMC	REF. NO.	ADD. ID.
SWC	008.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.1/462.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
5 OF 5

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	2	.3	O	Complete manuscripts on dolphin population size estimates for publication.			X												
C	2	.3	O	Complete manuscript analyzing data from aerial dolphin sighting experiment, conducted spring '81.			X												
C	2	.3	M	Conduct experiments on shipboard dolphin sighting survey techniques.				X	X										
C	2	.3	O	Complete manuscript analyzing data from shipboard dolphin sighting survey experiment.						X	X								
C	2	.3	M	Conduct dolphin sighting survey south of Galapagos Islands.							X								
C	2	.3	M	Conduct aerial and shipboard dolphin sighting surveys for entire eastern tropical Pacific.										X					
C	2	.3	O	Complete manuscript analyzing results of dolphin sighting surveys, developing population size estimates.												X			
C	2	.3	M	Complete analysis of reliability of dolphin age determination techniques.		X													
C	2	.3	M	Complete manuscript analyzing dolphin life history data for sampling biases.				X											
C	2	.3	O	Complete manuscript analyzing dolphin age structure data for natural mortality rate.						X									
C	2	.3	M	Complete manuscript reviewing available data on cetacean reproduction processes.						X									
C	2	.3	O	Develop general model of cetacean reproductive cycle, applied to dolphin populations.									X						
C	2	.3	O	Prepare report on status of dolphin populations, updating current assessment.					X				X						
C	2	.3	O	Complete new analysis of status of dolphin populations, based on new assessment.												X			
		.																	
		.																	
		.																	
		.	.																

DIV.	REF. NO.	ADD. ID.
SWC	011.00	

TOTAL FTE (FTP)/TOTAL $(K)

6.0/318.3

FY 82
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

FY 81
14 Aug. 1981
PAGE
1 OF 6

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett	La Jolla	CA	W.F.	Perrin	YES / NO

TITLE: Research on the biology of dolphins for stock assessment

TASK ALLOCATION	TASK # 1 88C4H3B0	TASK # 2 88C4H3E0	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					318.3
FTE (FTP)					6.0
FTE (OTFTP)					4.4

GOAL/OBJECTIVE ALLOCATION	NG C	NO 2	SO 3	NG C	NO 2	SO 3	NG	NO	SO	NG	NO	SO
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	011.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/318.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
14 Aug. 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This plan covers biological research activities directed toward providing input to assessments of stocks of dolphins exploited in the tuna purse-seine fishery in the eastern tropical pacific. Components of the research are definition of species and stocks through studies of external and skeletal morphology, biochemical characters, parasites & distribution; estimation of parameters of growth & reproduction through studies of biological samples & data collected aboard commercial seiners; & development of laboratory methods for age determination and field techniques for specimens & data collection. The studies are aided and augmented through co-operative international research & advisory programs involving the Inter-American Tropical Tuna Commission, the International Whaling Commission & the U.S. - U.S.S.R. Marine Mammal Project. SWC will organize & host a major international conference on cetacean reproduction in Nov.-Dec., 1981, in co-operation with the IWC & the U.S. Marine Mammal Commission.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

In fiscal year 1982, this program will provide a body of age data for input into analyses of mortality rates and age-specific reproductive rates of the spotted dolphin. Reports will be provided on geographical variation in morphology of spotted and spinner dolphins in the ETP, on the potential of parasite faunas as population markers and on the species-level taxonomy of the spinner dolphins. All life history data and specimens from calendar year 1981 will be processed and the data made available for computerized analyses by mid-FY82. A report on time/area composition of the 1981 kill will be provided to IWC by June, 1982. The report of the workshop sessions of the International Conference on Cetacean Reproduction will be prepared in draft by April 1982.

FMC	REF. NO.	ADD. ID.
SWC	011.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/318.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT
(dollar amount in thousands)

DATE
14 Aug. 1981
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The activities covered by this plan are part of the research required to carry out the NMFS-mandated management of dolphin populations required by the Marine Mammal Protection Act of 1972. Assessment of the status of the dolphin stocks is based on, among other things, definition of the stocks and on estimates of rates of mortality and reproduction. The biological studies included here are an integral part of a muti-discipline research effort that will culminate in stock assessments and management recommendations in 1984. The co-operative research and advisory activities partially fill U.S. obligations under international conventions and agreements to which it is a party, including the IATTC, the IWC and the U.S. - U.S.S.R. Environmental Agreement.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If the program is not continued, it will not be possible to assess the status of the dolphin stocks as required by the MMPA. Continued exploitation without adequate assessment could result in serious overexploitation of the dolphin populations, which in turn could drastically affect the highly valuable tuna seine fishery which relies on dolphin schools for location and capture of tuna. The $250 million fishery would also be very seriously affected by legal closure of the dolphin-based operations that could result from non-compliance with requirements of the MMPA by NMFS. Shutdown of this program would also adversely affect U.S. participation in international research and advisory functions

FNC	REF. NO.	ADD. ID.
SWC	011.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/318.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
14 Aug. 1981
PAGE
4 OF 6

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	2	.3	M	Re-analysis of geogr. variation in morphology of spotted and spinner dolphins completed		x													
C	2	.3	O	Report of same available			x												
C	2	.3	M	Investigation of feasibility of using parasite faunas in stock delineation completed. Phase II		x													
C	2	.3	M	Phase III begun			x												
C	2	.3	M	Phase III completed					x										
C	2	.3	O	Report available							x								
C	2	.3	M	Complete processing of 1981 life-history specimens and data and compilation and editing of data base				x											
C	2	.3	M	Begin same for 1982			x												
C	2	.3	M	Complete for 1982								x							
C	2	.3	M	Complete estimations of age-specific repro. rates for spotted dolphin					x										
C	2	.3	O	Report available						x									
C	2	.3	O	Present review paper on delphinid reproduction, at conference		x													
C	2	.3	M	Conference on Cetacean Reproduction		x													
C	2	.3	O	Proceedings of conference published										x					
C	2	.3	M	Chair small-cetaceans subcommittee of IWC				x											
C	2	.3	M	Participate in meeting of Comm. of Sci. Advisors, MMC		x													
C	2	.3	M	Participate in planning meeting of U.S.-U.S.S.R. Marine Mammal Project				x											
C	2	.3	O	Publication of field guide to cetaceans of eastern Pacific		x													

FMC	REF. NO.	ADD. ID.
SWC	011.00	

TOTAL FTE (FTP)/TOTAL $(K)
6.0/318.3

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
14 Aug. 1981
PAGE
5 OF 6

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	2	.3	M	Research on behav. of spinner dolphin completed				x											
C	2	.3	O	Report available					x										
C	2	.3	O	Body of age data for spotted dolphin provided for analysis			x												
C	2	.3	O	Age data for whitebelly spinner dolphin provided					x										
C	2	.3	O	Age data for eastern spinner provided							x								
C	2	.3	O	Age data for common and striped dolphins provided									x						
C	2	.3	M	In-vivo calibration of tooth layering completed for spinner dolphin		x													
C	2	.3	O	Report available			x												
C	2	.3	M	In-vivo calibration of tooth-layering completed for bottlenose dolphin							x								
C	2	.3	O	Report available								x							
C	2	.3	M	Present paper on reproductive seasonality in spotted dolphin		x													
C	2	.3	M	Present paper on age-determination methods		x													
C	2	.3	O	Paper submitted for publication			x												
C	2	.3	M	Bibliography on age determination in mammals completed		x													
C	2	.3	O	Submitted for publication			x												
C	2	.3	M	Tunaboat observers trained in field dissection, for 1982 season		x													
C	2	.3	M	For 1983 season						x									
C	2	.3	M.	For 1984 season										x					

FMC	REF. NO.	ADD. ID
SWC	011.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/318.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
14 Aug. 1981
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Supervisory Fishery Biologist	14	Perrin, W.F.	68401	100
Wildlife Biologist	12	Myrick, A.C.	64497	100
Zoologist	9	Hohn, A.	39609	100
Fishery Biologist	9	Kimura, M.	46871	100
Laboratory Technician	7	Miller, R.	61314	100
Laboratory Technician	7	Sloan, P.	82137	100

PMC	REF. NO.	ADD. ID.
SWC	017.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/317.3		

FY 1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
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APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Isadore Barrett	La Jolla	CA	N.W.	BARTOO	YES / NO

TITLE: NORTH PACIFIC ALBACORE AND BILLFISH STOCK ASSESSMENT

TASK ALLOCATION	TASK # 1 88A3J3A0	TASK # 2 88A3J3B0	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					317.4
FTE (FTP)					6.0
FTE (OTFTP)					0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	.2	A	8	.3			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	1	.5	A	8	.4			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	6	.1	A	2	.3			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.	A	11	.5			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FRC	REF. NO.	ADD. ID.
SWC	017.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/317.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The 017 task provides stock assessment, fisheries analyses, and information on the biological and socio-economic effects of management and conservation measures for North Pacific albacore and bluefin tuna and eastern Pacific billfish and oceanic sharks. The task maintains liaison with domestic and foreign scientific groups, state agencies and fishermen organizations that have interest in the well-being of these stocks. The task provides and assembles data on North Pacific albacore, marlins, swordfish and oceanic sharks. The task provides as necessary, information and scientific analyses for use by U.S. Commissioners, fisheries administrators, and the Pacific Fishery Management Council. The task monitors and maintains albacore fishery statistics as required for the U.S.-Canada treaty. The task maintains a lab-to-lab agreement with the Far Seas Fisheries Research Lab in Japan to conduct joint albacore stock assessment work.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

This task produces status of stock reports with fishery descriptions and recommendations, of scientific experiments, draft FMP reports and survey information on recreational tuna and billfish fisheries as required. The task maintains a current data base on the fisheries and provides summaries as required. The task provides fishery management advice as required. The task provides fishery statistics as required in the U.S.-Canada albacore treaty.

FMC	REF. NO.	ADD. ID.
SWC	017.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/317.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
3 OF 6

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The North Pacific albacore fishery is one of the most important and valuable U.S. fisheries. Albacore catches are worth about $40 million annually to U.S. fishermen. Over 6,000 fishermen are employed on 2,000 vessels. Supplies of foreign caught Pacific albacore imported into the U.S. are worth an additional $75 million to U.S. canners, at the wholesale level. The canned product of approximately 60,000 metric tons of Pacific albacore annually is worth perhaps $250-300 million at the retail level.

Currently there is an offshore expansion of international fleets including the U.S. fleet. Increased fishing pressure by these fleets may soon lead to overfishing on the stock and long-term losses to U.S. fishermen. Fishery expansion effects on the stocks should be evaluated and effects of alternative management actions to protect U.S. interests predicted. This task provides these evaluations and predictions to U.S. government officials.

The U.S. fisheries for sharks and billfish in the California FCZ are rapidly expanding. The shark fishery alone has increased eight fold in the past 2 years. Concurrently, the recreational billfish fishery has expanded to over 3,000 vessels. With these expansions has come user group conflicts, severely increased pressure on the stocks, and unknown economic changes. To support the council and FCMA requirements for domestic fisheries, the status of billfish and shark stocks and the commercial and recreational fisheries should be monitored and evaluated. This task monitors and evaluates these fisheries and provides council and government officials with analyses.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Non-continuation of this task will result in loss of information on the condition of the stocks and the effects of the fisheries on the stocks. This may lead to over expansion of the fisheries and institution of unnecessary or inappropriate regulations to increase yield. Non-continuation will result in the loss of the source for scientific advice within government and support of council analysis needs. Further, the U.S. will lose required monitoring of fishery statistics for the U.S.-Canada treaty. The U.S. will lose its scientific connections with Japanese fishery laboratories.

FMC	REF. NO.	ADD. ID
SWC	017.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6.0/317.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
4 OF 6

TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist	13/1	Bartoo, N. W.	04946	100
Fishery Biologist	13/10	Squire, J.L., Jr.	84633	100
Fishery Biologist	9/6	Weber, E.C.	94203	100
Fishery Biologist	9/7	Majors, A.P.	54619	100
Fishery Biologist	9/6	Holts, D.B.	40086	100
Fishery Biologist	7/5	Dotson, R.C.	23363	100

FMC	REF. NO.	ADD. ID.
SWC	017.00	

TOTAL FTE (FTP)/TOTAL $(K)
6.0/317.3

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 14, 1981

PAGE
5 OF 6

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.2	0	Evaluate migratory patterns and rates of billfish and marlins.			X												
A	6	.1	0	Analyze and report on 1981 tagging efforts.			X												
A	6	.1	0	Conduct and report on Pacific international billfish angler survey.				X											
A	6	.1	0	Collect and analyze catch efforts bio. data from southern California billfish fisheries.		X	X	X	X										
A	1	.5	0	Catch and fishery analyses for Pacific Fishery Management Council.		X	X	X	X										
A	6	.1	0	Monitor and evaluate recreational billfish economics contract.		X	X	X	X										
		.																	
		.																	
A	1	.5	0	Initiate cooperative CF&G contract for shark dynamics and fishery evaluation.			X												
A	1	.2	0	Present shark species synopsis for major species in local catches.					X										
A	1	.2	0	Promote voluntary shark tagging for species taken in commercial catch.		X	X	X	X										
A	1	.5	0	Secure historical shark catch data.					X										
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	

FMC	REF. NO.	ADD. ID.
SWC	017.00	

TOTAL FTE (FTP)/TOTAL $(K)
6.0/317.3

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 14, 1981

PAGE
6 OF 6

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	8	.3	0	Recommend North Pacific albacore optimal port sampling design from contract				X											
A	8	.3	0	Prepare final recommendations of albacore logbook formats.			X												
A	8	.3	0	Prepare and initiate contract for U.S. fishery data sampling.				X											
A	8	.3	0	Summarize non-U.S. North Pacific albacore fishery data.		X	X	X	X	X	X	X	X	X					
A	8	.3	0	Present age structured North Pacific albacore analysis.					X										
A	8	.4	M	Organize and host 7th North Pacific Albacore Workshop.					X										
A	8	.4	0	Distribute 1982 pre-season albacore information.				X											
A	8	.3	0	Present albacore research results to industry.						X									
A	8	.3	0	Present results of otolith-spine ageing experiment for albacore				X											
A	8	.3	M	Present stochastic age-length key for albacore.							X								
A	8	.3	0	Complete sensitivity analysis of albacore simulation model.					X										
A	8	.3	M	Albacore model users meeting.				X											
A	8	.3	0	Schedule and contract for simulation model revision.		X													
A	8	.3	0	Plan and contract for Phase I of multi-effort fisheries model.				X											
A	8	.4	M	Present report of FY82 cooperative albacore studies.						X									
A	8	.3	0	Continue voluntary tagging for stock structure information.				X	X	X									
A	2	.3	0	Secure data on albacore recreational fishery.						X									
A	2	.3	0	Prepare summary document on albacore recreational fishery.						X									

FIN.	FIT. NO.	ALO. ID.
SWC	918.00	

TOTAL FTE (FTP)/TOTAL $(K)
4/157.7

CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

FY 1981
August 31, 1981
PAGE
1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	REQUIREMENT
Izadore Barrett Izadore Barrett, Director	LA JOLLA	CA	H.G.	MOSER	YES / NO

TITLE: Ecology & Taxonomy of Fishes of the California Current

TASK ALLOCATION	TASK # 1 88A3H5	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					157.7
FTE (OTFTP)					4.0
					1.8

GOAL/OBJECTIVE ALLOCATION	TASK # 1 NG / NO / SO A / / 2,3,4	TASK # 2 NG / NO / SO	TASK # 3 NG / NO / SO	TASK # 4 NG / NO / SO
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	/ / .	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE(OTFTP)				
	/ / .	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	/ / .	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				

NMFS HQ. USE ONLY

ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FIIC	REF. NO.	ADD. ID.
SWC	018.00	
TOTAL POS./TOTAL $(K)		
4/157.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Multispecies Taxonomy Task has four major areas of responsibility. First is the identification, enumeration and staging of fish eggs and larvae collected in CalCOFI cruises. This involves the checking of identifications of anchovy, hake and sardine made by the plankton sorters, the further identification of the remainder of the sample, and subsequent coding of identifications for entry onto the computer. Oblique Bongo and 1-meter net tows and neuston (Manta) net tows from triennial CalCOFI surveys comprise the bulk of this work, although CalCOFI mini-cruises and other special cruises are included in the work. The second major responsibility is the preparation and publication of early life history descriptions of fish species taken in the CalCOFI region and eastern Pacific. These accounts document the life history stages from egg to early juvenile and include available information on annual and seasonal changes in abundance and geographic distribution. A rearing project has been initiated to provide specimens for these descriptions and to increase the number of species that we can identify in the plankton samples. The descriptive accounts may treat a single species or range in scope, to monographs of entire families. A third responsibility is ecological analysis of larval fish assemblages in the CalCOFI region. These presently include a study of food regimes of fish larvae based on examination of gut contents. Study species are selected from a broad systematic array and sampling is designed to considered ontogenetic, temporal and spatial variability. Also, an analysis of the larval fish assemblage of the CalCOFI region has been initiated from data generated by CalCOFI time series will be established from data presently being computerized. When historical data set is fully computerized, analysis of diversity and structure of the larval fish assemblage will follow. A 21-day cooperative cruise with Dr. Tilman Pommeranz of Kiel, Germany produced a wealth of fine-scale vertically discrete ichthyoplankton samples from the Southern California Bight. The vertical distribution of the total ichthyoplankton will be described in relation to time, area and hydrography. A fourth major responsibility is service functions.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

A major output is the staged egg data set for the annual anchovy biomass estimate. This provides the means for determining the age distributions of the eggs, essential for arriving at the spawning biomass. A proper description of these stages will be forthcoming this year. Another major output is the multispecies egg and larva data set which is entered on the computer and provides information on the distribution, relative abundance, spawning season and variability of the fish populations off California and Baja California. Scientific publications document the above outputs as well as progress in identification of previously unknown fish eggs and larvae and the results of biological and ecological studies relating to feeding, distribution and diversity.

FHC	REF. NO.	ADD. ID.
SWC	018.00	
TOTAL POS./TOTAL $(K)		
4/157.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 15, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The use of plankton surveys to produce estimates of spawning biomass of major fish populations has become widespread both nationally and internationally. An essential basis for this work is the ability to identify the eggs and larvae of the many species sampled by the nets. This requires a carefully archived collection of fish eggs and larvae and the expertise acquired through years of working with the collection. With this background, we provide the quality control for eggs and larvae of anchovy and sardine identified and measured by the plankton sorters. Also we assign the proper developmental stage to anchovy eggs taken in vertical net hauls, a step that is critical to determining age distribution of the eggs and subsequently the biomass of the spawning stock. As we move beyond single-species concepts in fishery management, the importance of species diversity and interaction becomes important. The plankton survey is the best method for measuring these but is limited by our ability to identify eggs and larvae of component species. The constant progress made by this task in this area, documented in published manuscripts, is providing the data base for analysis of diversity and species interactions, with the potential for a major input to multispecies management. The background and abilities of task personnel permits completion of shipboard and laboratory work on special projects such as the recent egg and larval vertical distribution study and the ongoing larval predator/prey studies that provide fundamental biological information.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Discontinuation of this program would limit the plankton surveys to the study of the anchovy, sardine, hake and saury and these without the benefit of the quality control provided by 018.00. Egg staging, critical to the egg/gonad biomass estimate, would not be accomplished. Extension of plankton survey analysis to other species, such as rockfishes, mackerels, flatfish, would be curtailed, a loss that would be felt beyond the SWFC. The laboratory would lose a research team whose abilities provide an unique contributary potential.

RMC	REF. NO.	ADD. ID
SWC	018.00	
TOTAL POS/TOTAL $(K)		
4/157.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
August 15, 1981
PAGE
4 OF 5

POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Fishery Biologist	14	Moser, H.G.	63510	1
Fishery Biologist	9	MacCall, B. Y.	54130	1
Biological Technician	9	Sandknop, E.M.	77331	1
Biological Technician	9	Stevens, E.G.	45650	1

SWC	018.00
TOTAL POS./TOTAL $(K)	
4/157.7	

CURRENT YEAR OPERATIONS PLAN

MILESTONE - ACTIVITY - EVENT PLANNING CHART

(dollar amount in thousands)

DATE: August 15, 1981

PAGE: 5 OF 5

WG	WO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.3	O	Identification, verification, computer entry of CalCOFI fish egg & larval samples	1978				X										
A	1	.3	O	Identification, verification, computer entry of CalCOFI fish egg & larval samples	1981														X
A	1	.4	O	Computer data entry of vertical stratification study followed by analysis and report on anchovy															
A	1	.2	M	Provide anchovy egg stage data for 1981/82 spawning biomass estimate		X													
A	1	.4	M	Report on anchovy egg & larvae temperature/stage experiment					X										
A	1	.3	O	Ecological analysis of multispecies data in cooperation with Survey Systems Task Ldr. & contract emp.															X
A	1	.3	M	Prepare MS on early life history of aurora rockfish					X										
A	1	.3	M	Submit MS on rearing of 4 rockfish species			X												
A	1	.3	M	Prepare MS on early life history of 7 species of croakers reared in the aquarium					X										
A	1	.3	M	Prepare MS on rearing of mussel blenny					X										
A	1	.4	O	Continue study of feeding habits of larvae of hake, rockfish and mid-water species															
A	1	.4	M	Prepare MS on staging of anchovy eggs & larvae for egg/gonad biomass technique handbook					X										
A	1	.3	M	Organize symposium and resultant book on early life history of marine fish															X
A	1	.4	O	Review outside manuscripts and research proposals															
A	1	.4	O	Consult and advise on research problems dealing with fish eggs and larvae															
		.																	
		.																	
		.																	

FED.	REF. NO.	ALT. ID.
SWC	619.00	

TOTAL FTE (FTP)/TOTAL $(K)

6/343.4

FY 82

CURRENT STATE CURRENT AS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 19, [illegible]

PAGE

1 OF 6

APPROVED/BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	REQUIREMENT
Izadore Barrett Izadore Barrett, Director	LA JOLLA	CA	J.R.	THRAILKILL	YES / XXX

TITLE: Coastal Eastern Pacific Fisheries Resources Investigations

TASK ALLOCATION	TASK # 1 88A2H3	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					343.4
FTE (OTFTP)					6.0 0.5

GOAL/OBJECTIVE ALLOCATION	NG / NO / SO A / 1 / 2,3,4,5	NG / NO / SO	NG / NO / SO	NG / NO / SO
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				

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ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	019.00	
TOTAL POS./TOTAL $(K)		
6/343.4		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The annual assessment of stocks supporting the California coastal fisheries is an important step in the management of the fishery, and allocation among competing users. Data obtained from these cruises provides the basic information required by Fishery Management Plans of the Pacific Fishery Management Council. Another important problem in the assessment of stocks is the determination of the causes for changes in stock levels, specifically to determine if changes are due to fishing and therefore theoretically predictable. Assessment surveys conducted at spawning times gives valuable information for estimating the size of spawning stocks. At the Southwest Fisheries Center these are called CalCOFI (California Cooperative Oceanic Fisheries Investigations) cruises which provide information on the abundance and availability of anchovy stocks to the bait & reduction fisheries and provide current information to the Pacific Fishery Management Council for use in recommending catch quotas for the reduction fishery. Estimates of stock sizes derived from selected station sampling provide the preliminary figures required to set regulations for the sardine and anchovy fisheries each year. More precise figures on stock sizes for management of the coastal fisheries are provided by sorting all the samples for cruise years. This task has the added responsibility of assuring completeness and accuracy of ship-obtained data for use in the CalCOFI data management system and supports data requirements for all other tasks in the Coastal Fisheries Resources Division. New techniques for biomass assessment and recruitment analysis of all comercially important pelagic fishes in the California Current are implemented by scientists in this task, e.g. egg surveys, trawling to obtain fish samples for aging and acoustics.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Provide logistics in 1981-82 for four (22, 12, 52 & 30 day) cruises to provide information for biomass assessment of FCMA plan species..
Process plankton and data from selected cruises for specified FCMA plan species.
Provide data management and data retrieval for all species of interest obtained in CalCOFI surveys and special cruises.
Calibrate and maintain scientific equipment needed on shipboard and onshore for successful prosecution of cruises and data handling.

FMC	REF. NO.	ADD. ID.
SWC	019.00	
TOTAL POS./TOTAL $(K)		
6/343.4		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 15, 1981
PAGE
3 OF 6

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

In FY 1982 four cruises will be logistically prepared and directed by members of this task. These include a 28 day cruise in October-November (pre-recruitment), a 12 day cruise in December (ORION & Rockfish survey), and a 52 day cruise during January, February and March (Egg-Gonad survey with a minimum of 1,000 closely spaced stations); all cruises with the David Starr Jordan. A 30 day April cooperative cruise with a U.S.S.R. research vessel for estimating anchovy and hake stocks will be handled logistically by this task. As part of the anchovy biomass assessment we anticipate that the California Department of Fish & Game will run an acoustic survey during the 52 day egg-gonad survey of the Jordan and will need input from task staff members. The leader of this task is also the COTR for plankton sorting by contractors and works closely with all scientists in the Coastal Division to acquire and disseminate data collected on all cruises.

IMPACT IF TASK/PROGRAM NOT CONTINUED

This task supports all of the other tasks of the Coastal Division. Without it the research of the Division would be stopped, biomass estimates obtained from ichthyoplankton data would not be produced to honor our commitments to the Pacific Fishery Management Council.

ITIC	REF. NO.	ADD. ID
SWC	019.00	
TOTAL POS/TOTAL $(K)		
6/343.4		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
August 15, 1981
PAGE
4 OF 6

POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Fishery Biologist	12	Thrailkill, J.	89936	1
Electronics Engineer	12	Brown, J..	11057	1
Biological Technician	9	Metoyer, J.	60226	1
Computer Specialist	11	Charter, R.	15313	1
Biological Technician	7	Flerx, B.	27552	1
Biological Technician	6	Abramenkoff, D.	00210	1

SWC	019.00	
TOTAL POS./TOTAL $(K)		
.6/343.4		

CURRENT YEAR OPERATIONS PLAN

MILESTONE - ACTIVITY - EVENT PLANNING CHART

(dollar amount in thousands)

DATE
August 15, 1981
PAGE
5 OF 6

WG	WO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	2	0	Sorting of plankton samples: Jan. - June for the hake and anchovy biomass estimate.															
A	1	2	0	Sorting of plankton samples: July - Sept. - sort CalCOFI samples for eggs & larvae other than hake & anchovy.															
A	1	2	0	Sorting of plankton samples: Enter data into computer system.															
A	1	2	0	Edit all data collected at sea: Correct all errors, enter information into CalCOFI data base via UCSD Burroughs, and UCSD VAX system.															
A	1	4	0	Design cruise patterns, establish cruise activities via consultation with cruise and program leaders, prepare cruise announcements and cruise reports.															
A	1	2	0	Prepare clearance requests for scientific collecting in foreign seas, e.g. Mexico.															
A	1	2	0	Ready all sea-going equipment for cruises, including a calibration of flow meters, repair & replacement of collecting gear.															
A	1	4	0	Maintain close liaison with captain & crew of David Starr Jordan or other vessels assigned to the SWFC, ships of cooperative agencies working in the CalCOF program, e.g. Russian and Mexican ships, & provide American participating scientific party for our own & foreign vessels.															
A	1	4	0	Implement and use shipboard computer system, ORION.															
A	1	3	0	Develop CalCOFI data base and computer methods.															
A	1	3	0	Consult with program leaders and retrieve data for CalCOFI data base when needed.															
A	1	2	M	Participate in anchovy & hake biomass estimates.				X				X			X		X		

HC	REF. NO.	ADD. ID.
SWC	019.00	
TOTAL POS./TOTAL $(K)		
6/343.4		

FY1982
CURRENT YEAR OPERATIONS PLAN
MILESTONE - ACTIVITY - EVENT PLANNING CHART
(dollar amount in thousands)

DATE
August 15, 1981
PAGE
6 OF 6

HG	HO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	4	M	Update and integrate new components into David Starr Jordan sonar system.					X										
A	1	4	0	Provide expertise for electronic development and fabrication for laboratory and shipboard use.															

FM	FEE. NO.	ADD. ID.
SWC	020.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/124.5		

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 15, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Izadore Barrett, Director	LA JOLLA	CA	P.E.	SMITH	XXXX / NO

TITLE	Survey Systems Development & Evaluation

TASK ALLOCATION	TASK # 1 88A2H4	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					124.5
FTE (FTP)					2.0
FTE (OTFTP)					0.4

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO	TOTALS
	A	1	4										
GRANTS AND CONTRACTS													
TOTAL DIRECT FUNDS													
FTE (FTP)													
FTE (OTFTP)													
GRANTS AND CONTRACTS													
TOTAL DIRECT FUNDS													
FTE (FTP)													
FTE (OTFTP)													
GRANTS AND CONTRACTS													
TOTAL DIRECT FUNDS													
FTE (FTP)													
FTE (OTFTP)													
GRANTS AND CONTRACTS													
TOTAL DIRECT FUNDS													
FTE (FTP)													
FTE (OTFTP)													

NHFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	020.00	
TOTAL POS./TOTAL $(K)		
2/124.5		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The primary elements of next year's work are: 1) to effect on orderly transition from the larval census to the SWFC egg production method for estimating the biomass of northern anchovy central stock, and 2) to make the total oceanographic data file available for our research on environmental control of fish production and for other related research.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Monitoring of technical procedures, timely advice on new problems, and referred publications on fishery ecology and related management problems.

FIC	REF. NO.	ADD. ID.
SWC	020.00	
TOTAL POS./TOTAL $(K)		
2/124.5		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 15, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The current economic fate of fisheries on coastal pelagic schooling fish is a decline, often precipitous, to a condition of no net economic yield or large economic losses. The biological origins of these economic losses are variations in the reproductive success and failure to regulate the fishery based on population size data which is accurate and timely enough to be effective. Another economic loss is realized when populations recover (like the Atlantic and Pacific mackerel) but the harvest is prevented by outdated population estimates and quotas. This task exists to foster effective management of pelagic schooling fisheries by creating and implementing biological population information systems which offer accurate, precise and timely information on population size of harvested fishes. We also evaluate environmental causes for population failure to obtain early warnings from key oceanic indicators, of diminished capacity to produce pelagic schooling fishes.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this program is not continued, there will be an unacceptable failure and delay in implementing effective management of pelagic schooling fishes off North America. This is caused by absence or mistrust of biological information on fish stock size and reproductive potential and can result in huge economic losses.

RHC	REF. NO.	ADD. ID
.SWC	020.00	
TOTAL POS/TOTAL $(K)		
2/124.5		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
August 15, 1981
PAGE
4 OF 5

POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Fishery Biologist	14	Smith, P.	83137	1
Oceanographer	13	Eber, L..	24815	1

SWC	020.00
TOTAL POS./TOTAL $(K)	
2/124.5	

FY1982

CURRENT YEAR OPERATIONS PLAN

MILESTONE - ACTIVITY - EVENT PLANNING CHART

(dollar amount in thousands)

DATE

August 15, 1981

PAGE

5 OF 5

WG	WO		T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.4	O	Peruvian anchovetta egg sample frequency distribution (ESFD)															
A	1	.4	M	Comparison of anchoveta and northern anchovy (ESFD)							X								
A	1	.4	O	Embryonic mortality rate field work															
A	1	.4	M	Comparison 1981 larval census & egg production methods									X						
A	1	.4	M	1951-1981 larval census to egg production analogue										X					
A	1	.4	O	Sardine/anchovy interaction															
A	1	.4	O	Larval, juvenile, adult anchovy density & abundance by acoustic resonant survey															
A	1	.4	M	Oceanographic anomalies & fish stocks						X									
A	1	.4	O	Upper mixed layer dynamics & larval feeding															
A	1	.4	O	XBT efficacy															
A	1	.4	O	CODAF/documentation for CalCOFI oceanographic data file retrieval & updating															
A	1	.4	O	Schooled Fish Excretion/Primary Production															
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	

FSC	ELF. NO.	ADD. ID.
[illegible]	021.09	

TOTAL FTE (FTP)/TOTAL $(F)

2/84.7

[illegible]

Central Task Allocation, FY 88

RESOURCE SUMMARY

(dollar amount in thousands)

[illegible]

PAGE

[illegible] 1 OF [illegible]

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Richard S. Shomura	Honolulu	HI	J. A.	Wetherall	YES / NO

TITLE: Stock Assessment and Population Dynamics - Pelagic Resources

TASK ALLOCATION	TASK # 1 88A2H600	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					84.7
FTE (FTP)					2.0
FTE (OTFTP)					0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	7	.2									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	1	.5									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	C	3	.1									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	021.00	
TOTAL POS./TOTAL $(K)		
2/ 84.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
9 July 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

Task will study the impacts of harvesting on a hypothetical skipjack tuna population in which mortality is governed by various processes, including cannibalism, and compare expected trends in CPUE with observed patterns. This is one of a series of studies which will improve our understanding of skipjack stock dynamics and the status of skipjack fisheries in the Western Pacific. Task will also evaluate potentials for surface fisheries on South Pacific albacore, using historical longline fishery data and a computer simulation model. Task will complete manuscript on analysis of length frequency distributions for publication in scientific journal, and will contribute to analysis of Hawaiian monk seal population as requested. Task will revise the technical memo describing foreign tuna and billfish catches in FCZ of Western Pacific, and participate in joint studies with other programs where task's analytical skills are needed.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Performance will be judged by submission of Administrative reports or technical manuscripts presenting results of investigations. Task products will be such reports and manuscripts, to be made available to government policymakers, industry and scientific colleagues.

FMC	REF. NO.	ADD. ID.
SWC	021.00	
TOTAL POS./TOTAL $(K)		
2/ 84.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
9 July 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The U.S. tuna industry and Federal policymakers require scientific assessments of the status and harvest potentials of tuna resources in the South, Central, and Western Pacific. Development of new fisheries to supply U.S. consumers and development of resource information for U.S. Dept. of State and Dept. of Commerce negotiators both require scientific input which the task provides. Data summaries are also used extensively by the WPRFMC for development of the Billfish Management Plan. Research on population analysis methods and techniques of stock assessment and census are vital to improve the quality and reliability of resource information and scientific advice. Task is an important source of such research.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Termination of task will eliminate source of vital information to policymakers, WPRFMC and others needing resource assessments, and will seriously hamper ability of U.S. government to keep abreast of status of tuna and billfish stocks. Termination will also set back progress in advancing stock assessment methodology.

FMC	REF. NO.	ADD. ID
SWC	021.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/84.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
July 9, 1981
PAGE
4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Supervisory)	13/5	Wetherall, J. A.	95012	100
Mathematician	11/7	Yong, M. Y. Y.	98771	100

FMC	REF. NO.	ADD. ID.
SWC	021.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/84.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
July 9, 1981
PAGE
5 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	7	.2	O	Evaluate hypotheses of skipjack population regulation.															
A	7	.2	M	Submit draft report on above.			x												
A	7	.2	O	Evaluate potential for South Pacific albacore surface fishery.															
A	7	.2	M	Submit draft report on above.					x										
A	7	.2	O	Develop procedures for analysis of length frequency distributions.															
A	7	.2	M	Submit draft report on above.			x												
C	3	.1	O	Evaluate monk seal census methods as requested.															
A	1	.5	O	Revise estimates of tuna billfish catches in FCZ.															
A	1	.5	M	Subject draft reports on above.				x											
A	7	.2	O	Analyze albacore otolith data with Laurs et al.															
A	7	.2	O	Assist in development and maintenance of tuna data base.															
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.	.																

PR.	ELE. NO.	ALO. ID.
[illegible]	925.09	

TOTAL FTE (FTP)/TOTAL $(K)

3.5/193.3

[illegible]

CURRENT YEAR OPERATING PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

[illegible]

[illegible]

PAGE

[illegible] OF [illegible]

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Richard S. Shomura	Honolulu	HI	T.(NMI)	Otsu	YES / NO

TITLE: Pelagic Resources Investigations

TASK ALLOCATION	TASK # 1 88A2115	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					193.3
FTE (FTP)					3.5
FTE (OTFTP)					0.

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	.2			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	025.00	
TOTAL POS./TOTAL $(K)		
3.5/193.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES

DATE
August 5, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This task is responsible for gaining understanding of the pelagic resources of the central and western Pacific Ocean with special emphasis directed toward those resources of commercial and recreational importance. The objectives in FY 82 will be (1) to study the feeding habits of seabirds--continuing, (2) to develop and implement a squid survey and assessment study in the region of the Hawaiian and Northwest Hawaiian Islands--commenced; continue through FY 83, (3) to revise for publication the Philippines payao fishery report, (4) to clarify the identification of certain fish groups that posed major problems in Objective 1, to translate pertinent articles and technical papers published in the Japanese language that are of direct interest and benefit to the Laboratory, Center, and the tuna industry, and (5) plan a project to determine the residence time of billfishes in the Hawaiian fishing conservation zone (FCZ) as a direct aid to the recreational fishermen of Hawaii as well as to obtain information on the possible effect of foreign longline fishing on the status of billfishes within the FCZ.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Objective 1, a joint effort with the Fish and Wildlife Service (FWS), involves the examination of regurgitated stomach contents of seabirds collected from the Northwest Hawaiian Islands. Field work and sample processing have been completed, and a draft manuscript is scheduled for completion by the end of FY 81. Final draft of the manuscript will be completed in FY 82.

Objective 2 is a joint effort with the University of Hokkaido, Japan, which will provide the research ship and fishing gear. One cruise was completed in FY 81 and a progress report is scheduled for completion by January 1982. A second cruise will be made in FY 82.

Objective 3 is a description of purse seine fishing for tunas beneath anchored bamboo rafts as developed and practiced in the Philippines.

Continued

Specific output/performance measures of the task/program--continued.

Objective 4 is necessary to clarify the present status of such commercially important fishes as the Decapterus and Seriola in Hawaiian waters.

Objective 5 will be continued as before. The translations of pertinent fishing and up-to-date fishery events in Japan will be made available to interested users.

Objective 6 will be to develop detailed plans to study the residence time of billfishes in the Hawaiian Islands FCZ by such means as sonic tagging and tracking and also obtain information of vertical and horizontal movements of billfishes while they are in local waters.

FMC	REF. NO.	ADD. ID.
SUC	025.00	
TOTAL POS./TOTAL $(K)		
3.5/193.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 5, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

In recent years the skipjack tuna resources have figured more and more importantly in the fishing industries of various Pacific nations. The leading fishing nations of Japan, Taiwan, and Korea have turned a large part of their efforts toward harvesting the skipjack tuna. Many of the lesser developed nations are also making great efforts to develop skipjack tuna fisheries. Among the fishing methods, the pole-and-line method is probably the most suited for most of these nations fishing for skipjack tuna in the central and western Pacific. In this method, the fishermen depend almost entirely upon the sighting of seabirds as a means of locating skipjack tuna schools. Thus, the study of the seabird-fish interaction is of primary importance. Our studies of the feeding habits of seabirds are aimed at gaining much needed information on such an interaction. They will provide information about the similarities and differences in the diets of seabirds and tunas, the degree of competition existing for the same food, whether feeding habits of seabirds differ between species, and if so, to learn which species of birds would more likely be associated with skipjack schools. So much more is now known of the feeding habits of tunas that by studying the feeding habits of seabirds, we might be able to take advantage of the knowledge gained in fostering the further development of the skipjack tuna industry.

Another major subject of inquiry is the survey and assessment of squids in the central Pacific. The squids represent a huge resource of food for whales, tunas and other commercially important pelagic fishes, seabirds, and man. Conservation estimates of squids consumed by the sperm whale alone are about 30 million tons annually in the North Pacific and about 320 million tons on a worldwide basis. Man consumes about 1 million tons (1978). Yet very little is known about the squids outside of the main fishing areas. This is especially true of the central Pacific and waters around the Hawaiian Islands. We need to learn of the various species of squids that inhabit these waters, their distribution, and how their occurrences may be related to the occurrences of tunas. We need to know their relative abundance to determine whether they can be developed into a major fishery.

Continued

IMPACT IF TASK/PROGRAM NOT CONTINUED

The study of seabirds appears to be an important key to furthering the development of the Pacific skipjack fisheries to their full potential. For example, the presence or absence of certain seabird species may help the fishermen decide whether or not to fish a tuna school, and thus avoid poor catches or injudicious use of fuel. The study of seabirds may also explain the marked fluctuations in the availability of tunas. Squids are one of the few underexploited resources remaining. The Japanese are beginning to extend their squid fishery farther and farther eastward. Research is needed in order for us to be competitive and to rationally exploit the squid resources of the central Pacific. The loss of up-to-date intelligence pertaining to the activities, developments,

Continued

Detailed justification for the task/program--continued

A third area of activity in this task is the dissemination of information pertaining to the Japanese tuna industry. This is accomplished through translation of pertinent Japanese fishery articles and reports. If the U.S. fishing industry is to compete successfully with the Japanese, it is imperative that we keep abreast of information pertaining to the activities and innovations in the Japanese industry.

Impact if task/program not continued--continued

and innovations occurring within the Japanese tuna industry will place us in a most disadvantageous position. We must keep abreast of developments in order to compete with the Japanese fishery and also to keep up with new technological developments in fishing gear, an area in which the Japanese appear to surpass us both in effort and funding. The non-support of the above task activities will be contrary to our national and regional goals of increasing fish catch and developing new resources for exploitation.

FMC	REF. NO.	ADD. ID
SWC	025.00	

TOTAL FTE (FTP)/TOTAL $(K)
3.5/193.3

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Res.)	14/7	Otsu, T.	66494	100
"	12/9	Matsumoto, W. M.	56676	100
"	11/9	Hida, T.	38438	100
Fishery Methods & Equipment Specialist	7/6	Teramoto, S.	88923	50

FMC	REF. NO.	ADD. ID.
SWC	025.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3.5/193.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
5 OF 5

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.2	M	Participate in FWS-NMFS study of feeding habits of seabirds of the NWHI. (Final MS by Mar. 82).			x												
A	1	.2	O	Continue cooperative squid survey with University of Hokkaido (through FY 83).		---	---	---	---	---	---	---	x						
		.	O	Prepare survey plans in consultation with scientists of University of Hokkaido (Aug. 82).						x									
A	1	.2	O	Prepare progress reports on squid research (Dec. 81; June 82).		x		x											
A	1	.2	M	Revise for publication the Philippines payao fishery report. (Dec. 81)		x													
A	1	.2	M	Prepare brief versions of payao report and fish aggregating buoy report for ICLARM newsletter. (Mar. 82)			x												
A	1	.2	O	Continue translations of Japanese fishery reports for dissemination of information.		---	---	cont	inuing	---	---	---	---	---	---	---	---	---	---
A	6	.1	O	Prepare plans to study residence time of billfishes in the Hawaiian Islands FCZ.					x										

[illegible]	630.60	

TOTAL FTE (FTP)/TOTAL $(K)

7.5 /349.5

CURRENT FISCAL OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

Budget Activity

PAGE 1 OF 6

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Isabel Bonnett	La Jolla	CA	S.F.	Herrick	XXX / NO

TITLE: Assessment of tropical tuna stocks for management.

TASK ALLOCATION	TASK # 1 88A3112A0	TASK # 2 88A3112B0	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					349.5
FTE (FTP)					7.5
FTE (OTFTP)					3.7

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	7	.2	A	7	.2						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	7	.1	A	7	.1						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)				A	1	.5						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS NO. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	030.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7.5 /349.5		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

Task 030 provides annual status of stocks and fisheries reports, as well as information on the biological and socio-economic impacts of management, conservation and development measures for Atlantic and eastern tropical Pacific tuna resources. This work is carried out to support international tuna management negotiations conducted through the International Commission for the Conservation of Atlantic Tunas (IATTC) in the Atlantic Ocean, and the Inter-American Tropical Tuna Commission (IATTC) in the eastern tropical Pacific Ocean. The task maintains liaison with international scientific organizations to facilitate identification of those tuna stocks exploited at or beyond optimal levels and those capable of withstanding increased utilization. The task provides data and analyses upon which to base the U.S. position on the utilization of tuna resources under international management. To this end, the task initiates interaction between researchers, U.S. Commissioners and fisheries administrators to assure that research appropriate to decision-making needs is conducted.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

This task will implement and maintain tuna data management and collection systems and integrate global tuna fisheries data including biological, catch-effort, environmental, catch and socio-economic data. The task will monitor the status of key fisheries exploitating highly migratory species and produce scientific advice, situation reports, data summaries, and analyses for U.S. Commissioners and fisheries administrators as required.

This task will provide data and integrated fisheries management advice concerning the bioeconomic implications of alternative management regimes for the multi-species, multi-national Atlantic tropical tuna fisheries.

In support of ICCAT's International Skipjack Year Program the task will engage in the collection and analyses of biological and fisheries data to improve population parameter estimates for Atlantic skipjack tuna.

The task will develop and expand the theoretical and methodological basis for fisheries management and resource assessment through new analytical procedures and models.

FMC	REF. NO.	ADD. ID.
SWC	030.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7.5 /349.5		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
3 OF 6

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

This task monitors and analyzes data on the condition of Atlantic and Pacific tuna resources and the effects of international fisheries on these resources. These research activities provide information and advice on which to base the U.S. negotiating position regarding the utilization of tuna resources under international management. This task is also responsible for the U.S. research commitment to ICCAT concerning major Atlantic tuna species.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Non-continuation of this task will severely diminish or eliminate U.S. capability to monitor and evaluate the condition of tuna resources which support a major U.S. fishing industry. If this task is not continued, a key source of scientific advice for both U.S. ICCAT Commissioners and ICCAT itself will be lost. Furthermore, since this task involves a major commitment to ICCAT's International Skipjack Year Program, the success of this program will be seriously jeopardized. This task's output guides management decisions that affect a multi-million dollar U.S. fishery.

FMC	REF. NO.	ADD. ID.
SWC	030.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7.5 /349.5		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
4 OF 6

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	7	.2	O	Prepare status of Atlantic tuna stocks reports and background information for U.S. ICCAT Commissioners		X				X				X		X		X	
A	7	.2	O	Prepare resource and fisheries documents for annual ICCAT meetings		X				X				X		X		X	
A	7	.2	M	Participate in annual ICCAT meetings		X				X				X		X		X	
A	7	.2	O	Complete laboratory analysis for western Atlantic skipjack maturity-fecundity investigation.						X									
A	7	.2	O	Conduct analysis of western Atlantic skipjack feeding ecology.						X									
A	7	.2	O	Conduct analysis comparing the eye structures of Atlantic yellowfin and bigeye tunas						X									
A	7	.2	O	Analyze tropical Atlantic tuna single set data from the U.S. fleet.						X									
A	7	.2	O	Prepare situation reports on condition of eastern tropical Pacific yellowfin and skipjack tuna stocks.		X													
A	7	.1	O	Assemble background information for meeting of U.S. IATTC Commissioners and Advisors.		X													
A	7	.2	M	Participate in annual IATTC meeting.		X													
A	7	.2	M	Organize and host 33rd annual Tuna Conference.				X											
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FMC	REF. NO.	ADD. ID.
SWC	030.00	

TOTAL FTE (FTP)/TOTAL $(K)

7.5 /349.5

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM

(dollar amount in thousands)

DATE

August 14, 1981

PAGE

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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	7	.2	0	Submit Atlantic tuna fishery and biological data from U.S. landings and foreign transshipments to ICCAT.			X		X		X		X	X	X	X	X	X	X
A	7	.2	0	Submit U.S. Atlantic tagging data to ICCAT.			X				X			X		X		X	
A	7	.2	0	Compile U.S. North Pacific albacore statistics summaries.			X				X			X		X		X	
A	1	.5	0	Compile data for Pacific billfish angler survey.			X				X			X		X		X	
A	7	.1	0	Develop data system for socio-economic survey data.		X		X											
A	1	.5	0	Maintain and develop tuna/billfish/shark data management and collection systems, software & catalog		X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	7	.2	0	Participate in Center and tuna data management committees.			X		X		X		X						
A	7	.2	0	Analyze fishery sampling programs for adequacy.		X	X												
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FMC	REF. NO.	ADD. ID
SWC	030.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7.5/349.5		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
6 OF 6

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Industrial Economist	12/3	Herrick, S.F.	38193	50
Fishery Biologist (Research)	12/4	Rinaldo, R.G.	74260	100
Fishery Biologist (Research)	12/7	Au, D.W.	02768	100
Fishery Biologist (Research)	14/1	Vacant		100
Mathematician	11/4	Coan, A.L.	16624	100
Biological Technician (Fisheries)	8/6	Holzapfel, E.P.	40096	100
Secretary	6/6	Hostler, V.R.	40623	100
Fishery Biologist (Research)	7/2	Vacant		100

LINE	ACT. NO.	AMD. ID.
	035	

TOTAL FTE (FTP)/TOTAL $(K)

16/ 1031.2

811902

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

8/25/81

PAGE

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
	La Jolla	CA	I(nmz)	Barrett	YES / NO

TITLE

TASK ALLOCATION	TASK # 1 "CO"	TASK # 2 CO	TASK # 3 CL	TASK # 4 CT	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					1,031.2
FTE (FTP)					16.000
FTE (OTFTP)					6.135

GOAL/OBJECTIVE ALLOCATION	TASK # 1 NG	NO	SO	TASK # 2 NG	NO	SO	TASK # 3 NG	NO	SO	TASK # 4 NG	NO	SO
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

COAST & [illegible] OPERATIONS REPT.

RESOURCE SUMMARY

(dollar amount in thousands)

August 3, 1981

1 OF 2

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
	TIBURON	CA	WL	GIGUERE	XXXX / NO

TITLE: MANAGEMENT FUND

TASK ALLOCATION	TASK # 1 9WGN40TO	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS; COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					
FTE (OTFTP)					

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

...	Fac. No.	Add. ID.
...	135.00	

TOTAL FTE (FTP)/TOTAL $(K)

12/446.6

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 16, 1981

PAGE
1 OF 2

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Richard S. Shomura	Honolulu	HI	R. S.	Shomura	YES / NO

TITLE: Management Fund

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					446.6
FTE (FTP)					12.0
FTE (OTFTP)					

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	2	1	.7									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
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Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	035.00	

TOTAL FTE (FTP)/TOTAL $(K)
34/ $1,587.6

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 18, 1981
PAGE
1 OF 3

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Izadore Barrett	La Jolla	CA	I(NMI)	Barrett	YES / NO

TITLE: General Support - Management Fund

TASK ALLOCATION	TASK # 1 9WGN40	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					1587.6
FTE (FTP)					34.1
FTE (OTFTP)					8.2

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID
SWC	035.00	
TOTAL FTE (FTP)/TOTAL $(K)		
34/ 1587.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 18, 1981
PAGE
2 OF 3

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist - Research Mgmt.	ES	Barrett, I.	04651	100%
Fishery Biologist - Res. Mgmt.	15	Carr, J.	14128	100%
Fishery Biologist - Research	14	Mackett, D.	54191	100%
Executive Officer	13	Remington, B.	73047	100%
Tech. Writer/Editor	11	Vlymen, L.	92293	100%
Secretary	8	Tonsich, F.	90460	100%
Budget & Finance Tech.	7	Gaston-Akinwanile, D.	00695	100%
Administrative Assistant	7	Zorich, L.	99193	100%
Secretary	6	La Roche, N.	50110	100%
Building Engineer	11	Wright, C.	98204	100%
Program Support Assistant	9	Engstrand, B.	25534	100%
Purchasing Agent	6	Watkins, B.	93681	100%
Cash & Attendance Clerk	4	Sullivan, W.	87295	100%
Maintenance Man	WG 10	Marrow, M.	55596	100%
Librarian	11	Gittings, D.	31226	100%
Editorial Assistant	7	Prescott, L.	70648	100%
Laboratory Director	15	Shomura, R.	80942	100%
Administrative Officer	11	Godfrey, M.	31517	100%

FMC	REF. NO.	ADD. ID
SWC	035.00	
TOTAL FTE (FTP)/TOTAL $(K)		
34/ 1587.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 18, 1981
PAGE
3 OF 3

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Librarian	11	Nishimura, H.	65305	100%
Budget & Acct. Technician	7	Arakawa, J.	02203	100%
Editorial Assistant	7	Toyomura	90625	100%
Secretary	7	Yukihiro, C.	98909	100%
Secretary	5	Drury, A.	23819	100%
Purchasing Agent	5	Nakamura	64573	100%
Editorial Clerk	5	Young, E.	98810	100%
Clerk (Typing)	4	Davis, J.	21080	100%
Clerk (OMO)	4	Dutro, M.	24530	100%
Laboratory Director	15	Abramson, N.	00222	100%
Administrative Officer	11	Giguere, W.	30942	100%
Fishery Biologist	9	Smith, S.	83304	10%
Administrative Clerk	6	Hurst, C.	91959	100%
Secretary (TYP)	5	Bradley, L.	09555	100%
Maintenance Man	WG 9	Munoz, A.	64020	100%
Secretary	5	Powell, D.	70402	100%
Clerk Typing	4	Vacant	-	100%

[illegible]	[illegible]	[illegible]
[illegible]	136.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.6/464.5	32.7	

CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(Dollar amount in thousands)

DATE: August 7, 1981
PAGE: 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett	La Jolla	CA.	F.J.	Kellenberger	XXRS / NO

TITLE: Southwest Regional Data Management and ADP

TASK ALLOCATION	TASK # 1 88A3HAF	TASK # 2 88E6HA	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					464.5
FTE (FTP)					4.6
FTE (QTFTP)					4.0

32.7

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	.1	A	1	.1						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(QTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

BR.	REF. NO.	ADD. ID.
SSC	036.00	

TOTAL FTE (FTP)/TOTAL $(K)

4.6/ 464.5

CURRENT YEAR OPERATIONAL PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 7, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett	La Jolla	CA.	F.J.	Kellenberger	XXRX / NO

TITLE: Southwest Regional Data Management and ADP

TASK ALLOCATION	TASK # 1 88A3UA	TASK # 2 88E6UA	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					[redacted]
FTE (FTP)					464.5
FTE (OTFTP)					4.6
					4.0

GOAL/OBJECTIVE ALLOCATION	NG NO SO A 1 .1	NG NO SO A 1 .1	NG NO SO	NG NO SO
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
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GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE(OTFTP)				
	.	.	.	.
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	.	.	.	.
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	036.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.6/ 335.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 7, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This task is to support the basic information data base and data processing requirements for the various projects and functions of the SWC and SWR.

Every major project, and the administration of the SWC and SWR, requires various degrees of ADP support. These support activities range from routine system maintenance through upgrade to new software and applications development. Some projects involving significant ADP usage include: Tuna Resources, Marine Mammals, CalCOFI, David Starr Jordan, Larval Fish, Albacore Fisheries, Commercial and Recreational Fisheries, PACES, Tiburon Systems, Fisheries Market Information, and the Financial Reporting System (FRS).

Personnel engaged in the SWC and SWR ADP function must interact very closely and effectively with the Center and Region scientific and professional staff, NMFS, NOAA, DoC, GSA and other Federal agency staff, States of California, Hawaii and Western Pacific Island officials on data collection, security, exchange, processing and setting and monitoring of standards, protocols and procedures.

An important aspect of ADP support is the computational environment in which the processing takes place. SWC and SWR ADP specialists must maintain currency in a variety of ADP systems and equipment such as those at UCSD, UoH, ADP Network, Suitland UNIVAC, INFONET, NWC B7800 system, as well as a number of micro-computer systems.

With the dynamic nature of computers, the ADP staff must continue to review and update SWC and SWR ADP requirements, maintain the ADP implementation plan, convert existing systems to more cost/effective and responsive computational environments and make and implement recommedations for better systems and ADP equipment.

As the data bases maintained by the SWC and SWR increase in size and scope, data security, privacy, confidentiality and exchange become more and more important issues. The SW Confidentiality Handbook and control procedures must be updated and enlarged. Data sources in the states and islands must also review and accept the revised standards and procedures

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The maintenance and upgrading of the SWC and SWR ADP support systems including: Tuna Resources, Coastwide Data System, Marine Mammals, IWC, CalCOFI, David Starr Jordan Facilities and Systems, Larval Fish, Albacore, Commercial and Recreational Fisheries, Tiburon Systems, Fisheries Market Information and News and the FRS. The addition of a CONFER facility to the PACES System. Development of the ADP Plan and its approval by NOAA, DoC and GSA; implementation of the approved plan on schedule with budget.

FMC	REF. NO.	ADD. ID.
SWC	036.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.6/ 335.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 7, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

This task is to support the information management data base, and automatic data processing needs of all the laboratories/divisions within the SWC, and all of the offices within the SWR. This task is responsible for the overall direction, development, implementation, and maintenance of data management data base and automatic data processing software and application programs, information systems and computational environment for the southwest. Major activities include: Short- and long-range system development, design, programming and implementation of systems, and training of users on new systems and data base, including data editors and data managers; maintain, evaluate and upgrade systems; coordinate and direct the use of outside data processing services and ADP contracts (i.e., time-sharing facilities, consultants, contracts, etc.); evaluate and select optimum computer and related hardware; develop and maintain scientific library and Data Dictionaries; NDMC membership and Regional Data Base Administrator responsibilities (Leitzell memo of May 31, 1979); and retrieve, summarize, and analyze data for the SWR, the Director's Office of the SWC, and Administrative Services (ex: FRS, MIS, Enforcement). This task supports the following national goals: A, B, C. and D. Interact with NMFS personnel and other State and Federal officers on data exchange, standards, protocols and data security to maintain cost effective systems.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this program is discontinued, then the SWC and SWR would be unable to properly obtain the necessary information for management and scientific operations to meet the required missions and goals.

FMC	REF. NO.	ADD. ID.
SWC	036.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.6/335.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 7, 1981
PAGE
4 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY 82				BY 83				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.1	0	Consulting, systems analysis, programming, design, and maintenance of systems for SWR and SWC															X
A	1	.1	0	Develop and implement the tuna data base management system									X						
A	1	.1	0	Procure RJE for Tiburon				X											
A	1	.1	0	Complete conversion to UCSD				X											
A	1	.1	0	Coordinate the procurement of terminals, word processing equipment, and the use of computer services and ADP contractors															X
A	1	.1	0	Completion and approval of ADP plan by NOAA, DoC and GSA				X											
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		.																	
		.																	
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		.																	
		.																	
		.																	

FMC	REF. NO.	ADD. ID
SWC	036.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.6/ 335.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 7, 1981
PAGE
5 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Data Systems Manager	14	Fred Kellenberger	45854	60
Systems Analyst	12	Dorothy Roll	75431	100
Computer Programmer	11	Bob Butler	23455	100
Computer Specialist	12	John Davies	20868	100
Computer Specialist	9/11	Ken Wallace	92966	100

PR.	DET. NO.	ADD. ID.
SWC	037.00	

TOTAL FTE (FTP)/TOTAL $(K)

3/ 86.6

FY 1982

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 18, 1981

PAGE

1 OF 2

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Izadore Barrett	La Jolla	CA	I(NMI)	Barrett	YES / NO

TITLE: Illustrative Services, La Jolla

TASK ALLOCATION	TASK # 1 88A4IIC	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					86.6
FTE (FTP)					3.0
FTE (OTFTP)					

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	2	1	1									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY

ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID
SWC	037.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/ 86.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 18, 1981
PAGE
2 OF 2

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Scientific Illustrator	12	Raymond, K.	73220	100%
Scientific Illustrator	8	Orr, H.	66329	100%
Scientific Illustrator	8	Allen, R.	01201	100%

	040.00
EMPL. FTE (PTP)/TOTAL SOY	
3/1773	175.8

CURRENT TASK OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 10, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Richard S. Shomura	Honolulu	HI	R.F.	Sumida	

TITLE: Data Management and Technical Services

TASK ALLOCATION	TASK # 1 88A3117	TASK # 2 88F6119EJ	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					177.8
FTE (FTP)					3.0
FTE (OTFTP)					1.5

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A			A								
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
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Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SmC	040.00	

TOTAL FTE (FTP)/TOTAL $(K)
3/177.8

FY 1987

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 14, 1986

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Richard S. Shomura	Honolulu	HI	R.F.	Sumida	YES / NO

TITLE	Data Management and Technical Services

TASK ALLOCATION	TASK # 1 88A3H7	TASK # 2 88F6H9EJ	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					177.8
FTE (FTP)					3.0
FTE (OTFTP)					1.5

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A			A								
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	040.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/177.8		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 10, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Data Management and Technical Services (DMTS) will investigate the use of key to disc data entry procedure.

DMTS will continue to process all data being received by the Honolulu Laboratory from such sources as Japan, Korea, Taiwan, American Samoa, Federation States of Micronesia, Hawaii, and the Marshall Islands. Another source of data are the various laboratory research cruises.

Current files on system 1022 will be incorporated into either the U of H system or the Apple computer. The Request/Audit/Status/History File and the Tape Accounting/Status/History File will be continuously updated.

DMTS personnel in consultation with Laboratory personnel will investigate the feasibility of either an inhouse mini-computer or the use of the NWFC's computer resources.

Word processing hardware for the Honolulu Laboratory will be investigated.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The specific output/performance measure of this task is to make all data sets easily accessible to laboratory users. Whenever possible, DMTS personnel will also assist the H.L. staff in programming requests.

FMC	REF. NO.	ADD. ID.
SWC	040.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/177.8		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 10, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The Data Management and Technical Services Task of the Southwest Fisheries Center Honolulu Laboratory is responsible for the computer processing requirements and general data management. This task is engaged in producing and maintaining primary/secondary data files from source data, source data collections, file/systems documentation and procudure guidelines. This task seeks to reduce time requirements for internal/external information requests and is converting files/procedures in response to the growing usage of a data management system.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The productivity of laboratory scientists will be greatly reduced if DMTS support were denied them.

FMC	REF. NO.	ADD. ID
SWC	040.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/177.8		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist	11	Sumida, R. F.	87306	100
Computer Programmer	7	Kuba, S. H.	47846	100
Computer Technician	6	Tsukano, L. T.	91085	100

FNC	REF. NO.	ADD. ID.
SWC	040.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/177.8		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 10, 1981
PAGE
5 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.1	M	Investigate the use of key to disc entry procedure						X									
A	1	.1	M	Microfisching of source documents and records							X								
A	1	.1	O	Upkeep request audit, status and history file - continuous															X
A	1	.1	O	Transfer small data files from system 1022 to Apple computer						X									
A	1	.1	O	Upkeep tape accounting, status and history file -- continuous															X
A	1	.1	O	Processing of data -- source to magnetic tape -- continuous															X
A	1	.1	M	Investigate acquisition/leasing of word processing hardware						X									
A	1	.1	M	Investigate feasibility of acquiring a mini computer and/or acquiring uses of other resources such as NWFC's Burroughs System									X						
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		.																	
		.																	

FIN.	FIN. NO.	ADD. ID.
320	044.00	

TOTAL FTE (FTP)/TOTAL $(K)
4.0/236.0

COASTAL TASK OPERATIONAL PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

FY 91
August 14, 1991
PAGE
1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Richard S. Shomura	Honolulu	HI	R. N.	Uchida	YES / NO

TITLE: Insular Ecosystem Study Task

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
	88A2 1100				
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					236.0
FTE (FTP)					4.0
FTE (OTFTP)					5.3

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	.1			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)	A	1	.2			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

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ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

SWC	044.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.0/236.0		

FY 1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Insular Ecosystem Study Task of the Honolulu Laboratory is responsible for conducting marine resource surveys and assessment in waters surrounding U.S. island possessions in the Pacific. During the past five years, the major thrust of this task has been aimed at the Northwestern Hawaiian Islands (NWHI), a chain of small islands and atolls which is part of the Hawaiian Archipelago. Realizing that the NWHI constitute a major part of the Hawaiian Islands National Wildlife Refuge, the NMFS entered into a Tripartite Coooerative Agreement with the U.S. Fish and Wildlife Service, which manages the Refuge, and the State of Hawaii's Department of Land and Natural Resources, which claims jurisdiction in State waters, to survey and assess not only the marine life in waters surrounding these islands but also the terrestrial inhabitants such as sea and land birds and the endangered Hawaiian monk seal. The University of Hawaii Sea Grant Program also became a part of this investigation about a year after the field work began.

The NMFS portion of the survey was completed in FY 81, but much remains to be done. The monies and personnel for this task in FY 82 will be used primarily to complete ongoing studies generated by the NWHI investigation. Specifically, task members will continue analysis of data for spiny and slipper lobsters, bottomfish, seamount resources, ciguatera, and coastal pelagics, will initiate studies of field data collected on mackerel and bigeye scads, crabs, and shrimps, and prepare scientific reports which incorporate the results of all these analysis. The task also works closely with the Western Pacific Regional Fishery Management Council, providing input for the various Fishery Management Plans either in preparation or under consideration. Task members will also test and refine the Tropical Biomass Ecosystem Model developed for French Frigate Shoals using estimates provided by several of the NWHI studies, and will begin preparation of a fishery atlas of the NWHI which will incorporate all the information collected on species distribution, relative abundance, and aspects of their life history.

It is anticipated that specific questions arising from preparation of Fishery Management Plans for lobsters, bottomfish, and seamount resources will surface and require attention, perhaps in the form of additional field work. Inasmuch as the Laboratory-assigned research vessel is slated for a 6-month refurbishing period and will spend the remaining months of the fiscal year in waters around Guam and the Northern Marianas, the information required will have to be obtained by placing observers on domestic vessels fishing in waters of the NWHI.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The output of this task includes the dissemination of information relating not only to the marine resources of commercial interest but also to the interaction of the various marine species with the terrestrial inhabitants of the islands. The task is also responsible for providing assistance to the Planning Teams and the Scientific and Statistical Committee of the Western Pacific Regional Fishery Management Council with outputs that include information on distribution and relative abundance of the various species, their life history aspects, results of gear competition experiments, results of ghost fishing tests, results of studies on ciguatoxin in fishes of the NWHI, and fishing methods.
The measure of achievement can be quantified to some extent by the number of reports produced including Administrative Reports, Technical Memorandum, and manuscripts for presentation at workshops and symposiums or submitted to reputable journals for publication.

LI.	SUB. ID.	ADD. ID.
SWC	044.00	

TOTAL FTE (FTP)/TOTAL $(K)

4.0/236.0

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE

August 3, 1981

PAGE

3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

With passeage of the Magnuson Fishery Conservation and Management Act of 1976 and the resultant development of FMPs for lobsters and eventually for bottomfish and seamount resources, there is a pressing need to resource surveys and stock assessment for the NWHI species of commercial importance. It is the responsibility of the National Marine Fisheries Service to provide relevant information that will provide the basis for sound management decisions to be made by the Western Pacific Regional Fishery Management Council. There is also a great deal of interest shown by the State of Hawaii for fishery development in this vast and relatively unfishes area. Fishermen from the U.S. mainland also are looking at this area with considerable interest.

The NMFS has acquired a relatively large data base during the 5-year period of the NWHI survey. It is imperative that data analysis and report preparation be started immediately so that information vital to the development of the fishery in the NWHI can be disseminated without further delay.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Discontinuation of the task would have some serious consequences. Of immediate consequence would be the dissolution of the Tripartite Cooperative Agreement and a total curtailment of all the laboratory studies ongoing at this time. In essence, it would mean an end to the program before our studies can be completed. Furthermore, elimination of the program would result in RIF action for several highly trained and experienced scientists. Such reduction would seriously undermine NMFS responsibility in this important area which very closely impacts on several FMPs and would also greatly reduce the value of the total program and the thousands of dollars already invested in it by several government agencies.

FMC	REF. NO.	ADD. ID
SWC	044.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.0/236.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
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TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Supervisory Fishery Biologist (Research)	13/5	Uchida, R.N.	91591	100
Fishery Biologist (Research)	12/7	Gooding, R. M.	31777	100
Fishery Biologist (Research)	11/4	Uchiyama, J. H.	91595	100
Biological Technician (Fisheries)	6/3	Honda, V. A.	40125	50
Biological Technician (Fisheries)	6/3	Tagami, D. T.	88082	50

FHC	REF. NO.	ADD. ID.
SWC	044.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4.0/236.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
5 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.1	O	By June 1982 complete analysis of all NWHI field data				X											
A	1	.1	O	By June 1982 complete manuscripts relating to spiny lobster distribution, abundance, and life history				X											
A	1	.1	O	By June 1982 complete manuscripts relating to bottomfish distribution, abundance, life history				X											
A	1	.1	O	By June 1982 complete manuscripts relating to coastal pelagics distribution, abundance															
A	1	.1	O	By September 1982, complete manuscript relating to distribution, abundance of benthopelagics					X										
A	1	.1	O	By September 1982 complete manuscript relating to distribution, abundance of crabs					X										
A	1	.1	O	By September 1982 complete manuscript relating to distribution, abundance of shrimps					X										
A	1	.2	O	Provide estimates of stock size and other biological information on above-named species						X									
A	1	.3	O	Develop, test, and refine Tropical Biomass Ecosystem Model							X								
B	4	.1	M	By June 1982 complete manuscript relating to occurence of ciguatoxin in Hawaiian fishes				X											
A	1	.2	M	By December 1982 complete Fishery Atlas of the waters of NWHI						X									
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		.																	
		.																	
		.																	

FMC	FIT. NO.	ADD. ID.
SWC	046.00	

TOTAL FTE (FTP)/TOTAL $(K)

1/44.1

1199.

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 14, 1981

PAGE

1 OF 2

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Richard S. Shomura	Honolulu	HI	R. S.	Shomura	YES / NO

TITLE: Editorial and Illustration

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
	8RA2HK00				
TOTAL DIRECT LABOR					0
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					44.1
FTE (FTP)					1.0
FTE (OTFTP)					0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	2	1	.1			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID
SWC	046.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1/44.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Scientific Illustrator	11/10	Nakata, Tamotsu	64569	100

FAC	PEF. NO.	ADD. ID.
SWC	057.00	

TOTAL FTE (FTP)/TOTAL $(K)

3.3/320.7

FY 1982

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 14, 1981

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	LAST NAME	VESSEL REQUIREMENT
Barbara Bauer	La Jolla	CA	T.D.	Smith	XXXSXYX NO

TITLE: Marine Mammal Mortality and Data Management

TASK ALLOCATION	TASK # 1 88C4115A0	TASK # 2 88C4115B0	TASK # 3 88C4115C0	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					320.7
FTE (FTP)					3.3
FTE (OTFTP)					5.3

GOAL/OBJECTIVE ALLOCATION	NG C	NO 2	SO 3	NG C	NO 2	SO 3	NG C	NO 2	SO 3	NG	NO	SO
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	057.00	

TOTAL FTE (FTP)/TOTAL $(K)
3.3/320.7

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 14, 1981

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This task monitors the level of incidental kill permitted by quota, processes fishery and biological data collected by observers aboard U.S. tuna vessels engaged in fishing dolphin-associated tuna schools and develops alternative methods for assessing dolphin population size based on tuna vessel data. The incidental kill is monitored on a biweekly basis to determine if the quota is taken and closure of the fishery is warranted. Tuna vessel data are collected by NMFS as part of the quota monitoring procedure and are processed and used in assessing the condition of the stock and for evaluating the performance of the fleet. Development of alternative methods for assessing dolphin population is oriented to developing a less costly but effective method that can be used routinely.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

In FY82 the biweekly incidental kill levels will be monitored and reports issued; observer-collected data will be edited, processed and incorporated into research reports on status of the stocks; a progress report on the feasibility of using relative abundance measures for stock assessment will be completed. Two technical papers will be completed on aspects of the incidental mortality levels.

FMC	REF. NO.	ADD. ID.
SWC	057.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3.3/320.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT
(dollar amount in thousands)

DATE
August 14; 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The monitoring of the incidental kill levels in the tuna fishery is required under existing permits (MMPA), to determine compliance with quotas. Compliance is a necessary part to ensure that allowed quotas are not exceeded to the detriment of the population. Observer-collected data editing and processing are stages in eventual use of the data to determine the condition of the stocks, impacts of various regulations, performance of the fleet and determination of alternative quota levels. Without a sound, accurate data base, such analyses cannot be performed with assurance that the results are reliable.

Research on alternative methods to estimate population size is aimed at developing a reliable, low cost method to replace the current method which requires upwards of $2KK to execute.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Discontinuation of this task will result in loss of NMFS' ability to determine the impact of the fishery on the populations; whether the permitted quotas are too low for economic viability of the multi-million dollar tuna industry or too high for conservation of the dolphin populations; and loss of research that has a potential of reducing cost of estimating population size.

FMC	REF. NO.	ADD. ID
SWC	057.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3.3/320.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Research)	14/3	Smith, T.D.	83324	033
Biological Statistician	11/2	Wahlen, B.	92617	100
Computer Specialist	11/1	Ralston, F.	71658	100
Fishery Biologist (Research)	14/3	Parks, W.	67218	100

FMC	REF. NO.	ADD. ID.
SWC	057.00	

TOTAL FTE (FTP)/TOTAL $(K)
3.3/320.7

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 14, 1981

PAGE
5 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	2	.3	0	Obtain, edit and archive data on dolphin mortality and abundance (SERVICE)		X													
C	2	.3	0	Complete manuscript describing data management syste used for dolphin data			X												
C	2	.3		Monitor kill of dolphins by tuna fleet, on biweekly basis (SERVICE)		X													
C	2	.3	0	Prepare estimates of annual kill of dolphin by tuna fleet, each year as data becomes available (SERVICE)					X				X		X		X		X
C	2	.3	0	Complete manuscripts describing kill levels of dolphins, 1959-1980.				X	X										
C	2	.3	0	Complete manuscripts analyzing indices of relative dolphin abundance from tuna vessel data.					X		X								
C	2	.3	0	Develop standard data summaries for tuna vessel observer data, for 1971-1981.				X											
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	

FMC	REF. NO.	ADD. ID.
SWC	060.00	

TOTAL FTE (PTP)/TOTAL $(K)

6/181.9

FY1982

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 3, 1981

PAGE

1 OF 6

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	LAST NAME	VESSEL REQUIREMENT
[signature]	TIBURON	CA	JA	WHIPPLE	XXXX / NO

TITLE: STRIPED BASS: SOURCES OF EARLY MORTALITY

TASK ALLOCATION	TASK # 1 88F9T3	TASK # 2 88C2T1	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					181.9
FTE (FTP)					6.0
FTE (OTFTP)					

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	6	1	D	2	1						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												

NMFS HQ. USE ONLY

ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FNC	REF. NO.	ADD. ID.
SWC	060.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6/181.9		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
2 OF 6

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The inexorable decline of striped bass and what we believe are related environmental changes in the San Francisco Bay-Delta estuary demonstrate how little we know about this "urbanized estuary". A recent public television documentary on this subject graphically publicized the situation and further illustrated the public and institutional interest in understanding the estuary's problems and finding solutions.

We are now in the final stages of the striped bass study. The two major research areas (autopsy project and laboratory experiments) are near completion in either reporting or data analyses and summarizations. The adult and large juvenile autopsy study finished its large scale field collection phase. Laboratory analyses are over 90% done and statistical workup of the data is underway. A low-level monitoring of the 1981 spawning season was done and we hope to develop a long-term monitoring scheme for future use by management agencies (SWRCB, CDFG, etc.). Laboratory studies include further research on specific and general effects of pollutants on embryos, larvae and young juvenile striped bass. To be completed in FY 82 are studies on:

a. The combined effects of low-level chronic concentrations of zinc and benzene on striped bass embryos and larvae (done in cooperation with Lawrence Livermore Laboratory.)
b. The histopathology of young-of-the-year striped bass exposed to high, middle, and low-level, sublethal concentrations of benzene (done in cooperation with U. S. Davis school of medicine).
c. The acute toxicity of cyclohexane and alkylated cyclohexanes on 1-year old striped bass juveniles.

Preparations for field testing of our laboratory-derived hypotheses will begin in FY 82. Much preliminary work is needed to develop experimental methodology. This is especially true in the case of adapting elaborate laboratory analytical techniques to the field.

Groundwork will be set for a striped bass symposium and subsequent book on the biology and management of striped bass. Tentative date for the symposium is winter of 1982.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The ultimate objective of this task is to disseminate research results and recommendations for best management of the resources under study. Output of our work in FY 82 will be measured by reporting our research through:
a. Media (TV, radio, newspaper, magazine).
b. Scientific meetings (largely curtailed due to travel restrictions).
c. Public hearings.
d. Participation on management committees,
e. Technical and scientific publications (see attached list).
Groundwork for a Striped Bass Symposium will be completed this year. This will be a multi-disciplinary meeting designed to put together information on the biology and management of west coast striped bass. The Symposium will serve as a basis for a book.

RIC	REF. NO.	ADD. ID.
SWC	060.00	
TOTAL POS./TOTAL $(K)		
6/181.9		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 3, 1981
PAGE
3 OF 6

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The striped bass population has steadily declined for 10 years. For the last 3 years the decline has been precipitous and it has been measured at all life stages and ages. We believe the striped bass serves as an indicator of the environmental condition of the San Francisco Bay-Delta estuary, a complex body of water that represents a classic example of an "urbanized estuary". If we as researchers, along with resource managers, cannot determine the governing factors which affect growth and survival of estuarine inhabitants such as striped bass the environmental integrity of the system will be in jeopardy.

It is paramount that research on this estuary continue in light of proposed changes scheduled. We must understand how the system works now if we are to determine the impacts of future developments. The major changes slated for S.F. Bay-Delta estuary are man induced and are of such a magnitude the estuary and the contiguous coastal areas will be significantly altered. These changes include such things as freshwater diversions (via dams, canals, etc.) which will reduce flows to 10% of historical levels, agricultural salt water input (San Luis Drain), major navigational enlargements (ship channels up the two major rivers), total enclosure and flow reversal in the system's major marsh, new power plants, and increased pollutant input from consolidated municipal sewage plants, agriculture, and industrial dischargers.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The Habitat Protection Office of NMFS (Washington) rated the resource issues of the San Francisco Bay-Delta estuary in the top three problem areas in the nation. Despite general recognition of the problems there are few ongoing research programs studying the Bay. The Tiburon Laboratory Striped Bass Study has gained recognition as an expert and knowedgable research group. Should this task not continue many of the accomplishments to date would be jeopardized and the need for understanding and predicting the environment changes destined for the estuary would not likely be met.

FNC	REF. NO.	ADD. ID.
SWC	060.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6/181.9		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
4 OF 6

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
		.		MANUSCRIPTS:															
D	1 & 2	.	0	Publish: "Endogenous energy sources as factors affecting mortality and development in striped bass eggs and larvae"; Eldridge et al., Rapp, P-v, Reun. Cons. int. Explor. Mer. 178.					X										
		.	0	"Effects of inherent parent factors, including pollutant uptake on gamete condition and viability in striped bass", Whipple et al., Rapp. P-v. Reun. Cons. int. Explor. Mer 178.					X										
		.	0	"Bioenergetics and growth of striped bass eggs and larvae", Eldridge et al. Fishery Bull.						X									
		.	0	"Simple continuous-flow systems for dissolving the water-soluble components of crude oil into sea-water for acute or chronic exposure of marine organisms", Pete Benville et al., Water Research					X										
		.	0	Continue preparation of scientific and technical manuscripts outlined in attached document.		X-	---	---	---	---	---	---	-X						
		.		AUTOPSY STUDY:															
		.		Complete laboratory analyses, data workups and statistical analyses of autopsy study.		X-	---	---	---	-X									
D	1 & 2	.	M	Publish results of autopsy study.							X								
A	11	. 1	0	Set up long-term monitoring program						X-	---	---	-X						
		.		LABORATORY STUDIES:															
		.	0	Complete data summarization and statistical workup of study on combined effects of zinc and benzene on striped bass embryos and larvae.				X-	---	---	---	---	---	-X					
D	1 & 2	.	0	Complete histopathology study of juvenile striped bass exposed to benzene-publish results.				X-	---	---	---	---	-X						
D	1 & 2	.	0	Complete acute toxicity of cyclohexane and alkylated cyclohexanes. Publish results.				X-	---	-X									

FMC	REF. NO.	ADD. ID.
SWC	060.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6/181.9		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
5 OF 6

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR / MONTH	CY 3	CY 6	CY 9	CY 12	BY 15	BY 18	BY 21	BY 24	BY+1 30	BY+1 36	BY+2 42	BY+2 48	BY+3 54	BY+3 60
		.	O	Develop field methods for field testing of laboratory-derived hypothesis on factors affecting survival growth and reproduction of all life stages of striped bass.															
		.	O								X	-	-	-	-	-	X		
		.	O	Prepare for striped bass symposium						X	-	-	-	-	-	-	X		
D A	1 & 2 6	1 . 1	M	Host Striped Bass Symposium										#					
		.	O	Begin comprehensive book on striped bass biology and management.						X	-	-	-	-	-	-	X		
D	1 & 2	.	M	Target date of publication.											#				
		.																	
		.																	
		.																	
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SNC	REF. NO.	ADD. ID
SWC	060.00	
TOTAL FTE (FTP)/TOTAL $(K)		
6/181.9		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Supervisory Fishery Biologist (Research)	14	Whipple, J	86905	1
Supervisory Fishery Biologist (Research)	12	Eldridge, M	25143	1
Research Chemist	12	Benville, P	06660	1
Pollution Biologist	11	MacFarlane, R	54227	1
Biological Technician	7	Jarvis, B	42998	1
Biological Technician	6	Bowers, M	09064	1

S&C	061.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/161.4		

CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

August 3, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	LAST NAME	VESSEL REQUIREMENT
Gaetano Barnett	TIBURON	CA	S(NMN)	KATO	YES / XXX

TITLE: UNDERUTILIZED FISHERY RESOURCES

TASK ALLOCATION	TASK # 1 88F9T4	TASK # 2 88A3T6EJ	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					161.4
FTE (FTP)					3.0
FTE (QTFTP)					96

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	B	4	. 1	A		. 1			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
	A	1	.1	B	4	.1			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	061.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/161.4		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The primary objective of this Task is to increase the productivity of our fishing industry, by promoting the use of underutilized resources and by increasing efficiency of harvesting and processing methods. Increasing the use of our fishery resources requires knowledge of the resources, adequate technology, and the existence or development of markets. This Task considers all three aspects in studying commercial potential of underutilized species, and development of efficient gear. Economic studies are also undertaken to learn the constraints to development of our fisheries, and to encourage more efficient use of traditional as well as underutilized fishes. Industry is involved in all of our studies. Fishermen, processors, sellers, and buyers work cooperatively with the researchers in planning the projects, and providing vessels and facilities, often without cost to the Government. Personnel assigned to this Task are in constant contact with the fishing industry and are called upon to respond to many inquiries from industry as well as other segments of the public.

This year we will continue work on shortbelly rockfish, rock crabs, octopus, and euphausiids. Most field work on these species will be concluded by the end of FY 82. Preliminary studies will be conducted on most of the following to determine which deserve further attention: basking sharks; yellowfin goby; tanner crab; deep-water shrimps; ocean sunfish; whelks; jack mackerel. Gear studies on vertical longlines, Danish seine, semi-pelagic trawls, beam trawls, and pair trawling will be conducted as circumstances (time, money, vessels) allow. Work on a description of underutilized species will continue, with a target publishing date in FY 83. Economic studies will be made on the advantages and disadvantages of using sails on fishing vessels. Manuscripts will also be prepared from results of two contract studies dealing with economic and social aspects of the Monterey area sablefish fishery. Research in support of objectives of the Pacific Fishery Management Council will be conducted as requested.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The specific output of this Task will consist of information generated by our research. This information will be published in appropriate journals and will also be disseminated by more direct contact with industry members. Success of our projects can be measured by increased use of certain fishes as a direct result of our efforts and by use of methods which we show to be advantageous, or avoidance of methods which we show to be detrimental. Use by managers of our information will also be a measure of our effectiveness.

FMC	REF. NO.	ADD. ID.
SWC	061.00	
TOTAL POS./TOTAL $(K)		
3/161.4		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 3, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

It is clear from recently enacted legislation that fishery development is a national objective of high priority. Much of the traditional fisheries in California are operating at near maximum harvest rates, yet there are scores of under-utilized species available in the California current system. In developing fisheries for these species, problems need to be overcome in identification of the resources available, harvesting techniques, processing technology and location of markets. The fishing industry in California is characterized by small operators in the harvesting, processing, and marketing sectors. Most vessels and companies are individually owned, and proprietors lack resources or time to investigate new fisheries or new methods. Our efforts in these areas lead to the following benefits:

1. Contributions to the general economy through increased value of landings, creation of jobs, and lessening of our foreign trade deficit.
2. Creation of a wider and sounder base for our fisheries.
3. Relief of pressure on fully exploited stocks.
4. Increased amounts of protein.
5. Savings in fuel, personnel, and processing costs.

Some examples of our past contributions are: (1) introduced longline fishing methods for swordfish (similar methods are now used for sharks); (2) started use of fish pump in the wetfish industry (nearly all vessels use this method now): (3) started sea urchin fishery; (4) started fishery for pelagic red crabs, which were required as feed supplement by salmon growers; (5) invented pumping method for catching squid; (6) started fishery for basking shark liver oil; (7) started shark fin industry on the west coast. We have also had a considerable hand in developing the mullet roe market for the southeast; live elver shipments to Japan from the east coast; and pot-fishing for sable fish in California. Our research on Dover sole showed that maximum economic yield for fillets is attained by capture and process of fish substantially smaller than maximum size, and demonstrated that total weight of catch is not necessarily the best measure of the amount of final product gained, Our research on shortbelly rockfish has lessened fears by opponents of the fishery with regard to the amount of by-catch, and further demonstrated that commercial quantities could be readily caught with our methods.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Development of fisheries for underutilized species would probably occur at a much slower rate if this program were discontinued. Individual fishermen simply cannot afford to invest in uncertain ventures, and they usually lack the expertise to carry out such projects. California fishermen are well aware of the value of this program, and would surely object to its demise. Personnel in this program are in close contact with the fishing industry, and respond to many requests for information and cooperative work.

FMC	REF. NO.	ADD. ID.
SWC	061.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/161.4		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
4 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
B	4	.1	M	Complete manuscript on rock crabs			X												
A	1	.2	M	Complete manuscript on Dover sole fillet yield		X													
B	4	.1	M	Complete manuscript on sea urchin fishery					X										
A	1	.1	M	Complete manuscript on widow rockfish				X											
B	4	.1	O	Continue research on shortbelly, euphausiids, octopus, rock crabs		X-	---	---	---	---	---	---	X						
B	4	.1	O	Start research on whelk, sanddabs, shrimps, basking shark, goby, sunfish, tanner crab		X-	---	---	---	---	---	---	---	---	X				
B	4	.1	O	Research energy conservation through use of sail		X-	---	---	---	---	---	---	X						
B	4	.1	M	Complete manuscript on energy conservation through use of sail											X				
A	1	.1	M	Complete manuscript on sablefish economics and sociology				X											
B	4	.1	O	Compile catalog of California's underutilized species		X-	---	---	---	X									
B	4	.1	M	Complete initial catalog and publish									X						
A	1	.1	O	Support Pacific Fishery Management Council as requested		X-	---	---	---	---	---	---	---	---	---	---	---	---	X
B	4	.1	M	Complete manuscript on octopus fishery									X						
		.																	
		.																	
		.																	
		.																	
		.																	

FNC	REF. NO.	ADD. ID
SWC	061.00	
TOTAL FTE (FTP)/TOTAL $(K)		
3/161.4		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
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TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Research)	14	Kato, S	45556	1
Fishery Biologist	12	Leet, W	51005	1
Industrial Economist	12	Ueber, E	91604	1

FLC	REP. NO.	ADD. ID.
SWC	062.00	

TOTAL FTE (FTP)/TOTAL $(K)
2/125.1

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 3, 1981
PAGE
1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	LAST NAME	VESSEL REQUIREMENT
Ingalone Barnett	TIBUROH	CA	WH	LENARZ	YES / XXX

TITLE: Groundfish Resource Assessment and Fishery Analysis

TASK ALLOCATION	TASK # 1 88A315	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					25.1
FTE (OTFTP)					2.0
					3.0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	2	1									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	062.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/125.1		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The task provides technical support to the PFMC through active participation of the Groundfish Management Team, collection and compilation of data in support of the Groundfish Management Plan, and stock assessments in support of the Groundfish Management Plan. A significant amount of life history research is being conducted on rockfish. A species interaction study is being conducted on a community dominated by rockfish in San Francisco Bay. The work on the previous two items is with close cooperation of the Predator/Prey Task. The task leader has been assigned responsibility of coordinating SWFC groundfish research with similar activities of the NWAFC. Part of this assignment is organization of a West Coast Rockfish Conference in FY 82.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

During FY 82 task will provide support to the PFMC in the form of participation on the Groundfish Management Team and will likely draft or help draft several stock assessment reports, responses to comments, and possible revisions to the plan. Task personnel will present three technical talks and draft four technical papers. Papers presented at the Widow Rockfish Workshop will be edited.

FMC	REF. NO.	ADD. ID.
SWC	062.00	
TOTAL POS./TOTAL $(K)		
2/125.1		

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CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

Rockfish are a major component of domestic Pacific Coast groundfish landings. Because of their importance the PFMC needs considerable technical support for management of rockfish. The collection and compilation of fisheries statistics and stock assessments are vital components of the needed technical support. The life history studies provide estimates of parameters needed for stock assessments. Sixty species of rockfish occur off California. This has resulted in complex fisheries which can not be adequately assessed using standard single species techniques. The fish community study and some of the life history work are aimed at obtaining information needed for development of multispecies assessment and management techniques.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Reduced technical support of PFMC and development of multispecies assessment and management techniques, which could result in under or over exploitation of the resources.

FMC	REF. NO.	ADD. ID.
SWC	062.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/125.1		

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CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
CMA	1	SWC1	0	Technical support of PFMC		--	--	--	--	--	--	--	--						
"	"	"	0	Catch sampling		--	--	--	--	--	--	--	--						
"	"	"	0	Determine age composition of catch		--	--	--	--	--	--	--	--						
"	"	"	0	Life history studies		--	--	--	--	--	--	--	--						
"	"	"	0	Conduct traditional stock assessments of rockfish		--	--	--	--	--	--	--	--						
"	"	"	0	Study fish community of Tiburon Laboratory waterfront		--	--	--	--	--	--	--	--						
"	"	"	M	Revise experimental management plan									X						
"	"	"	0	Experimental management of Tiburon Laboratory waterfront fishing		--	--	--	--	--	--	--	--						
"	"	"	0	Report on population estimates of Tiburon Laboratory									X						
"	"	"	0	Report on identification of two important species of rockfish									X						
"	"	"	0	Report on morphology and ecology of rockfish									X						
"	"	"	0	Widow rockfish workshop		X													
"	"	"		Report on age at maturity study		X				X			X						
"	"	"	M	Western Groundfish Conference						X									

FNC	REF. NO.	ADD. ID
SWC	062.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2/125.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
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TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist	13	Lenarz, W	51205	1
Fishery Biologist	9	Echeverria, T	24830	1

FMC	REG. NO.	MOD. NO.
SWC	664.00	

TOTAL FTE (FTP)/TOTAL $(K)
4/192.0

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RESOURCE SUMMARY
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APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Gabe Barrett	TIBURON	CA	ES	HOBSON	YES / XXX

TITLE: PREDATOR-PREY RELATIONS and OTHER MULTISPECIES SYSTEMS THAT INFLUENCE COMMUNITY STRUCTURE

TASK ALLOCATION	TASK # 1 88F9T2	TASK # 2 88F9T2NA	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					203.8
FTE (FTP)					3.9
FTE (OTFTP)					.5

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	3	A	1	3						
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												

NMFS HQ. USE ONLY

ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	064.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4/192.0		

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CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
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(dollar amount in thousands)

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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

In defining predator-prey relationships, and achieving a better understanding of habitat requirements, this task develops a multi-species approach to management of important recreational species in Californian coastal fish communities. The relationships are being analyzed against a background of environmental change. The major agent of this change is coastal upwelling, which follows a seasonal pattern that varies from year to year. Understanding, then, requires multi-year study. Emphasis is on temporal variations in occurrence, distribution and activity--including diel, seasonal and longer-term patterns. Of special concern are occurrences of the foods of important recreational species, and the recruitment patterns of their young, which have been shown to vary with upwelling.

Study continues this year on the position in the community trophic structure of the shortbelly rockfish, Sebastes jordani. Diel and seasonal patterns in the feeding behavior are being determined, especially those that bear on relations with major recreational species, including salmon, striped bass and rockfishes. How important is the shortbelly as prey of these larger predators, or does it in fact have a negative impact on these species as a competitor or even predator on the young? This activity merges with another that centers on one of these major recreational species--the king salmon. Under study are the forces that determine seasonal shifts in its major prey, from anchovies (early to mid-spring, late summer and fall), to juvenile rockfishes, primarily shortbellies (late spring, early summer), to euphausiids (late summer).

Many of the forces that shape the biological interactions under study here are universal, as documented by Task members in past and current studies. A continuing long-term synthesis being undertaken under this task demonstrates that trophic relationships-particularly predator/prey interactions- are a major force in determining community structure. As part of this activity a Task member with extensive experience with Hawaiian fish communities has contributed this experience to the research being conducted by the Southwest Fisheries Center Honolulu Laboratory in the Northwestern Hawaiian Islands.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The Task is: 1) defining the food requirements of the shortbelly rockfish, its feeding behavior, its feeding-related diel movements, and identifying its major predators; 2) defining the seasonal feeding pattern of the king salmon, and identifying the basis of this pattern and forces that influence variations in it; 3) defining the impact of seasonal upwelling patterns on the nearshore communities with detailed accounts of organisms present under differing upwelling conditions; 4) developing a measure of recruitment strength by absolute numbers present, and by the relative numbers in the diets of certain predators; 5) documenting the significance of predator-prey interactions and other trophic relationships in determining community structure. These results are made available to interested parties and incorporated with the scientific literature in published reports.

RIC	REF. NO.	ADD. ID.
SWC	064.00	
TOTAL POS./TOTAL $(K)		
4/192.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
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(dollar amount in thousands)

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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

Previous study by members of this Task and others has shown that Predator/Prey interactions and other trophic interactions are major forces in determining the structure of fish communities. And in California these are strongly influenced by seasonal patterns of coastal upwelling. The upwelling pattern varies from year to year, so one must understand how this force affects the biological systems before the predictions necessary for effective management can be made. Of particular concern is the apparent impact this force has on the relative success of recruitment of important species, especially rockfishes (Sebastes spp.). Study of this relationship promises to be an important management tool, because the numbers of juveniles that settle in a given year may reliably measure the number of adults that will enter the fishery several years later. So if the numbers of juveniles that settle can be related to the relative strength of upwelling, the latter--a readily determined value--should be an effective predictor of future fishing success. From the point of view of the recreational fishery, the shortbelly rockfish is in particular need of immediate study. Although little fished at present, there is an awakening realization of its great commercial potential, which should concern recreational fishermen because this relatively small species is a major prey of the larger coastal recreational fishes, including salmon, striped bass, and rockfishes. Because its impending commercial exploitation is likely to ignite conflict with recreational interests, there is a great need to examine its position in the coastal trophic system before this position is distorted by sharply increased fishing.

The role of the shortbelly as prey of important recreational species is put in perspective in the study of the king salmon. This study stresses the seasonal element and the significance of relative abundance (which varies from year to year) in determining how important the shortbelly is as prey, as well as the king salmon's capability of shifting to alternative prey when favored prey are few.

Because earlier work has shown that many biolpgical interactions are best understood by comparing related phenomena in differing ecosystems, the contribution of this task to the Northwest Hawaiian Islands study has significant mutual benefit. These activities address problems faced by those that would contribute to management or exploitation of coastal resources in California.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The urgent need for detailed knowledge of predator/prey relationships is well established. The various regional management plans being prepared, or recently prepared,stress this need. And to make the predictions necessary for effective management, the knowledge of predator/prey relationships must incorporate the variations that occur from season to season, and year to year. In California these variations are closely related to the upwelling patterns, and so a knowledge of predator/prey relations must take this environmental force into account. The measure of recruitment based on incidence of juveniles in predator diets from one year to the next may prove an effective technique. And if the relative strength of recruitment proves to be a reliable measure of the numbers from that year class that enter the fishery years later, a powerful management tool would be lost if this program were discontinued.

FMC	REF. NO.	ADD. ID.
SWC	064.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4/192.0		

FY1982
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MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.3	0	Sample shortbelly rockfish for food habit analysis		X	X	X	X										
A	1	.3	0	Sample prey and potential prey of shortbelly rockfish		X	X	X	X										
A	1	.3	0	Sample predators and potential predators of shortbelly rockfish		X	X	X	X										
A	1	.3	0	Analyze data relating to shortbelly rockfish		X	X	X	X	X	X								
A	1	.3	0	Prepare report on position of shortbelly rockfish in coastal trophic system						X	X	X	X						
A	1	.3	0	Submit for publication reports on position of shortbelly rockfish in coastal trophic structure									X						
A	1	.3	0	Sample king salmon gut contents		X	X	X	X	X	X	X							
A	1	.3	0	Analyze predatory habits of king salmon		X	X	X	X	X	X	X							
A	1	.3	M	Submit report on king salmon											X				
A	1	.3	0	Prepare report on predator/prey interactions in multi-species management		X	X												
A	1	.3	M	Submit report on predator/prey interactions in multi-species management			X												
A	1	.3	M	Submit for publication report on predator/prey relationships in widow rockfish		X													
A	1	.3	0	Prepare report on the impact of coastal upwelling on trophic relations of blue rockfish		X	X	X											
A	1	.3	M	Submit for publication report on impact of coastal upwelling on trophic relations of blue rockfish				X											
A	1	.3	0	Monitor manifestations of coastal upwelling in nearshore communities		X	X	X	X	X	X	X	X	X	X	X	X	X	X
A	1	.3	0	Study Hawaiian reef fish communities, using submersible on deeper reefs		X													
A	1	.3	0	Develop use of predator/prey relations as index of recruitment		X	X	X	X	X	X	X	X	X	X	X	X	X	X

FMC	REF. NO.	ADD. ID
SWC	064.00	
TOTAL FTE (FTP)/TOTAL $(K)		
4/192.0		

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FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Fishery Biologist (Research)	14	Hobson, E	39247	1.0
Fishery Biologist (Research)	12	Chess, J	15424	1.0
Fishery Biologist (General)	11	Adams, P	00387	1.0
Fishery Biologist (General)	9	Smith, S	83304	0.9

SAC	022.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1/38.6		

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 3, 1981

PAGE

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Galore Barrett	TIBURON	CA	NK	WILEY	XXXX / NO

TITLE: ADP - TIBURON

TASK ALLOCATION	TASK # 1 88F6T8EJ	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					38.6
FTE (OTFTP)					1.0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	2	1									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
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FTE (OTFTP)												
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GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FNC	REF. NO.	ADD. ID.
SWC	088.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1/38.6		

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CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

To provide support for research activities of the Tiburon Laboratory through data collection, processing and computer analyses.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Availability of computer processing as an analysis tool.

FIC	REF. NO.	ADD. ID.
SHC	088.00	
TOTAL POS./TOTAL $(K)		
1/38.6		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

To enhance the analyses scope and impact of laboratory research projects.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Inability to effectively and efficiently analyses research data.

FNC	REF. NO.	ADD. ID.
SWC	088.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1/386		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
		•		Continuing data processing support															
		•																	
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FMC	REF. NO.	ADD. ID
SWC	088.00	

TOTAL FTE (FTP)/TOTAL $(K)
1/38.6

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Computer Specialist	11	Wiley, N	96072	1

FMC	REF. NO.	ADD. ID.
SWC	089.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7/272.6		

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE: August 14, 1981
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APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Richard S. Shomura	Honolulu	HI	R.A.	Skillman	

TITLE: Fishery Management Research Program (Core Program)

TASK ALLOCATION	TASK # 1 88A3J2EJ	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					272.6
FTE (FTP)					7.0
FTE (OTFTP)					0

GOAL/OBJECTIVE ALLOCATION	NG / NO / SO	NG / NO / SO	NG / NO / SO	NG / NO / SO
	A . 1 . 1			
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE(OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				

NMFS HQ. USE ONLY

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Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	089.00	
TOTAL POS./TOTAL $(K)		
7/272.6		

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CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This Task seryes as the Honolulu Lab's focus of activities relating to MFCMA and provides information in support of the development of FMPs in conjunction with the West. Pac. Fish. Mgt. Council. Of course with the approval of FMPs the role includes monitoring the success of these plans. Activities fall into two major areas, fisheries management and fisheries monitoring research.

Fisheries management research has consisted of various/studies involving demand analysis, cost/earnings, price/quantity economic and competitive structure of the area fishing industry at the producer and wholesale level. Future activities will involve vertical extentions into similar studies at the retail level and horizontal extentions on other species/fisheries not yet analyzed but of interest to the WPFMC.

Fishery monitoring research has included the analysis of historical & research data to assess the state of relevant stocks or fisheries for use in developing FMPs as well as to develop predictive models of fishery production for use by the WPFMC & NMFS. Future activities involve collecting data and preparing reports on the state of the fisheries for spiny lobster, coral, billfish and seamount resources covered by FMPs or others such as tuna that are of interest to the NMFS, State Dept, and WPFMC. Allied to this work will be efforts to continue the design and implemention of computer data bases for tuna, FCMA related, and insular fisheries so that summarizations and analyses may be performed efficiently.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Output will include reports on economic studies relative to recreational fish., pertaining to species/fish. such as mahimahi, wahoo and small pelagics at the producer/wholesale level, and on managed species/fish. at the retail level. Output will also include reports on the state of fisheries covered by FMPs such as spiny. lobster, billfish, precious coral, and seamount fisheries as well as fisheries for which plans are being developed and for tuna fisheries of regional importance. Data base user manuals will be issued. Performance may be monitored through the issuance said reports and their use by the WPFMC as well as NMFS and State staff in management oriented deliberations.

FMC	REF. NO.	ADD. ID.
SWC	089.00	
TOTAL POS./TOTAL $(K)		
7/272.6		

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CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

A significant proportion of the staff's effort will be directed toward the legislative mandate via the MFCMA, to manage stocks/fisheries prosecuted by both foreign and domestic fishers in the FCZ. The WPFMC and NMFS (specifically the Honolulu Lab, SWFC & SWR) are to base these management activities on the best scientific evidence possible. The purpose of the task is to collect and assemble the required economic and biological data and provide the necessary analyses to do this. Staff effort will be directed also at key tuna fisheries of importance to the SWFC , NMFS and the WPFMC because of their association with billfish management and because of their effect on marketing of FMP managed fish. On a broader scope, other tuna fisheries will be monitored because efforts toward international management of tunas in the Indian and particularly the South Pacific are increasing dramatically by the countries in the area through the FFA, the IOFC and IPFC within FAO, and other multilateral arrangements, thus requiring, again, that the NMFS and State delegates have the best scientific knowledge at their disposal.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Failure to acquire the data not now collected by the states and stipulated in the FMPs will make it impossible to monitor the efficacy of the management measures and to improve the plans for conservation or socio-economic reasons. Failure to provide the biological and economic analyses for use by WPFMC & NMFS will seriously reduce the base level of scientific evidence since the states, private industry, university, or Council staff either do not have the capability or have shown the interest to provide such analyses. Failure to monitor tuna fisheries on an oceanwide basis and provide relavant background papers will surely place the U.S. delegation (NMFS, State, Industry) at disadvantage in international meeting where discussions take place on management arrangements.

FMC	REF. NO.	ADD. ID
SWC	089.0	
TOTAL FTE (FTP)/TOTAL $(K)		
7/272.6		

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TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Task Leader, Supv. Fish. Biol.(Res.)	13/	Vacant		100
Supervisory Fishery Biologist (Res.)	12/8	Skillman, R. A.	81840	100
Fishery Biologist (Research)	12/6	Yoshida, H. O.	98778	100
Fishery Biologist (Research)	12/1	Riggs, F. V.	74103	100
Physical Science Technician	11/4	Ito, B. M.	42419	100
Statistician	9/5	Kamer, G. L.	45319	100
Industrial Economist	12/	Vacant (vice Adams, M.)		100

FMC	REF. NO.	ADD. ID.
SWC	089.00	
TOTAL FTE (FTP)/TOTAL $(K)		
7/272.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.1	M	Final report SMS Contract - wholesale dealers survey.					x										
A	1	.1	O	Issue wholesale dealer's survey report to State, Federal, Council for use in develop/ update FMPs.							x								
A	1	.1	M	Pending availability of funds, prepare specifications for expanded recreational fish. survey covering State of Hawaii.					x										
A	1	.1	M	Prepare/implement horizontal/vertical extensions of economic studies for FMPs.			x				x			x		x			
A	1	.1	O	Issue annual and ad hoc reports covering status of fisheries in the FCZ.						x				x		x		x	
A	1	.1	O	Issue tuna, CNMI, and MFCMA data set user's manuals.				x	x	x									
A	1	.1	O	Issue report on bottomfish fishery forecasting model.				x											

FMC	ELEM. NO.	ADD. ID.
SWC	090.00	PEG

TOTAL FTE (FTP)/TOTAL $(K)

2/101.1

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
8/13/81

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1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Gabe Bauer	Monterey	CA	D.R.	McLain	YES / NO

TITLE: Ocean Climatology and Monitoring

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
	88A4Y3				
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					101.1
FTE (FTP)					2.0
FTE (OTFTP)					1.8

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	2	.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	8	.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

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ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	090	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
2/101.1		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

Ocean Climatology and Monitoring Task has three basic functions: 1) research on ocean processes that affect marine populations and are of importance in fisheries management, 2) liaison with FNOC and other groups on ocean monitoring, and 3) management of environmental data. Research currently involves development of time series of XBT, sea level, and hydrographic data along the California coast to monitor flow of the California Countercurrent. Proposed work for FY82 involves study of available temperature time series for the California Current region to determine principal components of fluctuations. Results will be used to determine optimum temperature series for use in fisheries populations simulations. Liaison with FNOC and National Climate Program Office (NCPO) involves development of ocean monitoring program including contracted operation of XBT sampling programs (for ERL-EPOCS in tropical Pacific and for NCPO in North Pacific), development of computer software, and automation of XBT sampling equipment. Data management includes supply of temperature data to NMFS laboratories and mapping of ocean properties for support of fisheries management.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

In FY82 this task will produce manuscripts on sea level variations at Monterey, CA and hydrographic conditions of the California Countercurrent, reports on principal component analysis of temperatures in the California Current region and XBT monitoring progress, and produce maps of ocean conditions for tuna distribution studies. Task will continue with FNOC liaison activities.

FMC	REF. NO.	ADD. ID.
SWC	090	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
2/101.1		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

A major limitation of present fisheries management models is the lack of information of the effect of climatic fluctuations -- present models often assume constant environmental conditions while the actual environment can be highly variable. Adequate time series of ocean climatic fluctuations are generally not available due to lack of data or understanding of ocean processes. Active involvement of NMFS in ocean monitoring and data archival programs is required to insure that fisheries purposes are considered when data are collected and processed.

Fleet Numerical Oceanography Center (FNOC) is the primarily real time ocean analysis center in the U.S. (and the world) and plays a central role in U.S. ocean monitoring programs and data analysis. PEG has a unique arrangement with FNOC for use of data and computers for applications to fisheries. This program uses FNOC facilities to develop time series data on ocean climatic fluctuations, to perform research on the application and limitations of the series, and to help incorporate them in fisheries management models. Liaison activities with FNOC and involvement in ocean monitoring programs are important as they justify to the Navy PEG's presence at FNOC. These activities also encourage the monitoring of ocean conditions of interest to fisheries programs.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Reduced research on physical ocean processes and development of time series of ocean fluctuations in support of fisheries programs. Reduced involvement of NMFS in international global ocean monitoring programs adversely affecting fisheries programs. Reduced justification for PEG's presence at FNOC adversely affecting availability of environmental data to NMFS laboratories.

FMC	REF. NO.	ADD. ID
SWC	090	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
2/101.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
8/13/81
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
OCEANOGRAPHER, TASK LEADER	13	McLAIN, D.R.	58161	1.0
ADMINISTRATIVE OFFICER	7	LAZANOFF, M.	50542	1.0

FNC	REF. NO.	ADD. ID.
SWC	090	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
2/101.1		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
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NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	2	.	O	Environmental data management and analysis		X-	--	--	--	--	--	--	--	--	--	--	--	--	X
A	2	.	M	Manuscript on sea level variations at Monterey, CA					X										
A	2	.	M	Manuscript on flow of California Countercurrent						X									
A	2	.	M	Report on principal components of temperature fluctuations								X							
A	8	.	M	Maps of ocean conditions for tuna distribution studies											X				
A	2	.	O	Liaison with FNOC and other groups on ocean monitoring		X-	--	--	--	--	--	--	--	--	--	--	--	--	X
A	2	.	M	Report to EPOCS on tropical Pacific XBT monitoring					X										
		.																	
		.																	
		.																	
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		.																	
		.																	

FMC	REF. NO.	ADD. ID.
SWC	091.00	

TOTAL FTE (FTP)/TOTAL $(K)

5/402.8

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett, Director	La Jolla	CA	D.D.	Huppert	YES / NO

TITLE: Commercial & Recreational Fisheries Research for Management

TASK ALLOCATION	TASK # 1 88F9H2	TASK # 2 88F6H1E3	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					402.8
FTE (FTP)					5.0
FTE (OTFTP)					1.6

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A			A								
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

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ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	091.00	
TOTAL POS./TOTAL $(K)		
5/402.8		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES

DATE
August 15, 1981
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

Stock Assessment: During FY82 a northern anchovy biomass estimate (based on the new egg production method) will be produced before July 1; and the Pacific hake relative spawning range and density will be assessed based on a planned US/USSR cooperative ichthyoplankton survey. To assure that these stock assessments are carried out in a timely fashion, task personnel will coordinate and assist in the planning and execution of sea surveys. In addition, rockfish sampling and analysis will be continued as well as coordination and logistical support for southern California portion of NWAFC's sablefish survey. In another continuing activity, collection and analysis of aerial spotter logbook data are planned for FY82. Finally, full documentation of procedures and statistical properties of the "egg production" method will be completed this year.

Fishery Management Plans: The northern anchovy FMP will be substantially revised to reflect changes in stock assessment methods, stock production models and recent fisheries data. Also alternatives to the current size limit regulations will be analysed. Work may begin on a multispecies "wetfish" FMP, if the Pacific Fishery Management Council (PFMC) and NMFS agree to this.

Economics Research and PFMC Support: Task personnel will participate with PFMC and its Scientific and Statistical Committee (SSC) regarding needs for west coast fisheries. A major contract study of limited access, begun in FY81, will continue thru FY82, and new contracts and cooperative agreements (probably with the University of California) will be initiated to provide economic information and studies for management decision-making. Also, the in-house research on economics of the multispecies wetfish fleet will be completed. This will be of general value as a new method of conceptualizing a multispecies fishery, and of specific value to the possible development of a "wetfish" FMP.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

1. a. Anchovy biomass estimate - July 1.
   b. Assessment of relative hake spawning - June.
   c. Documentation of egg production biomass estimation methods.
2. Revised anchovy FMP - Spring 1982.
3. Limited access study for West Coast fisheries - Fall 1982.
4. Multispecies, stochastic model of wetfish fleet - Summer 1982 (in Ph.D. dissertation).
5. Aerial fish spotter logbook data base.

RHC	REF. NO.	ADD. ID.
SWC	091.00	
TOTAL POS./TOTAL $(K)		
5/402.8		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

Anchovy biomass estimate needed for anchovy plan hake stock spawning assessment useful for annual determination of OY, TALFF for trawl fishery. Revision of anchovy FMP is needed due to change in biomass assessment methods, knowledge accumulated regarding fish biology, passage of several years without update of data in FMP, and desire of PFMC to amend size limit regulations. Continued research and development regarding egg production methods is needed to provide peer-reviewed documentation and thorough public support for quantitative estimates. This new method should result in savings equal to about half of the previous biomass estimation cost. Continued economics research is justified by the statutory requirements (FCMA and need for rationale allocation of resources in fisheries management.)

IMPACT IF TASK/PROGRAM NOT CONTINUED

Without the program, the FMP for anchovy will not function; amendments to FMP would be stalled; and hake stock assessments would be based on less information. Also, discontinuation of the progress would mean a halt to development of multispecies models, management methods (e.g., limited access), and economics support for some FMPs in the Southwest Region.

ITIC	REF. NO.	ADD. ID
SWC	091.00	
TOTAL POS/TOTAL $(K)		
5/402.8		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME PERMANENT POSITIONS

DATE
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POSITION TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	STAFF YEARS SPENT ON THIS PLAN
Industry Economist	14/3	Huppert, D.	41914	1
Fisheries Biologist	13/5	Stauffer, G.	85210	1
Fisheries Biologist	12/10	MacGregor, J.	54166	1
Statistician	9/3	Picquelle	69241	1
Industry Economist	9/4	McMillan	58282	1

SWC	091.00	
TOTAL POS./TOTAL $(K)		
5/402.8		

FY1982
CURRENT YEAR OPERATIONS PLAN
MILESTONE - ACTIVITY - EVENT PLANNING CHART
(dollar amount in thousands)

DATE
August 15, 1981
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MG	MO	SO	T	MILESTONE - ACTIVITY - EVENT DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	1	O	Assist in planning sea surveys and stock assessments for anchovy and hake.															
A	1	1	M	Publish administrative report on anchovy biomass and memo on hake spawning.								X							
A	1	1	M	Distribute MS on 1980 egg production estimate and on 1981 estimates.						X	X								
A	1	1	O	Continue collection and computer processing of aerial spotter logbooks.															
A	1	1	M	Completed document on "egg production" method.								X							
A	1	1	O	Prepare amendments to anchovy FMP.															
A	1	1	M	Hold "scoping session" with PFMC.						X									
A	1	1	M	Present draft FMP to council; revise & re-present final draft.							X	X							
A	1	1	O	Investigate multispecies stochastic models of wetfish fishery.															
A	1	1	M	Complete MS on aggregate fleet reaction function model.						X									
A	1	1	M	Complete MS on micro-data reaction function.								X							
A	1	1	O	Montior & assist contract study of limited access on west coast fisheries.															
A	1	1	M	Hold PFMC-related workshop on the limited access study.								X							
A	1	1	M	Distribute final report on the limited access study.									X						
A	1	1	O	Provide assistance to PFMC on economics and technical matters.															
A	1	1	M	Complete MS on stock-recruitment model for anchovy spawning geography (MacCall)							X								
A	1	1	M	Incorporate anchovy stock-recruitment model into management model.								X							
A	1	1	M	Plan and execute contracts for FY82 socio-economic funds (SWFC/SWR)							X								

FMC	REP. NO.	ADD. ID.
SWC	092	PEG

TOTAL FTE (FTP)/TOTAL $(K)

7/329.7

FY 82

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

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APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Sabine Bamett	Monterey	CA	A.(NMN)	BAKUN	XRS / NO

TITLE: Fishery/Environmental Modeling and Forecasting

TASK ALLOCATION	TASK # 1 88A4Y2	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					329.7
FTE (FTP)					7.0
FTE (OTFTP)					

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1										
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	A	B										
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

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Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	092	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
7/329.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
8/13/81
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The mission of the Fishery/Environmental Modeling and Forecasting Task at PEG is to (A) develop an effective system of environmental indices and parameters which reflect changes in ocean climate affecting the abundance and distribution of fishery resources, and to (B) conduct research which will provide a basis for forecasting environmental conditions and the resulting impacts on marine populations.

Research focus is on processes rather than properties. The traditional fishery-oceanographic approach is to concentrate on ocean properties such as temperature and salinity. A property is relatively easy to measure and is specific to a particular point in space and time occupied for example, by a research vessel. However in the case of processes (e.g. upwelling, ocean surface convergence, advection, atmospheric forcing, propagation of ocean disturbances, etc.) which determine and continually alter the state of ocean and biotic properties, we must deal with a space-time continuum which cannot be resolved from a single research platform. The environmental data network of the U.S. Navy, which is designed to provide such a continuum from a vast array of sources, terminates at Fleet Numerical Oceanography Center (FNOC) in Monterey. PEG's collocation with FNOC provides an invaluable resource for process-oriented research.

Methods for incorporating information on environmental variation in fishery management models are not presently well developed. Rational approaches are hindered by lack of detailed knowledge of the linkages between environmental fluctuations and their effects on fish stocks. Empirical approaches are limited by lack of sufficient data points. An approach has been formulated to improve the rational basis by means of seasonal/geographical comparative studies. The empirical basis is being improved by establishment of specially-tailored environmental index series and the production of compatible fishery and other biological data bases. A parallel effort addresses the development of fishery model methodology to effectively incorporate this information.

Present emphasis is on the California Current region, where valuable fish stocks have undergone extreme fluctuations. Comparative studies with analogous eastern boundary current systems is an important component of research progress.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The major thrust of the task, eastern boundary current study, during FY82 will result in descriptions of seasonal patterns of geostrophic flow and stability in the California Current and in establishing relationships between these properties and anchovy reproduction. Also Preliminary descriptions of the flow and stability characteristics of the Canary and Peru Currents will permit initial comparisons between fishery/environmental relationships of these currents and the California Current. The support of the North Pacific Albacore research, exploratory environmental data analysis will determine feasibility of empirical albacore forecasts. The development of fishery modeling methodology will have as output model demonstration projects using species with adequate fishery and environmental data.

FMC	REF. NO.	ADD. ID.
SWC	092	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
7/329.7		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

Recent precipitous declines in important fishery stocks around the world have pointed out an urgent need for advances in fishery management science. A particular need is for realistic models which can predict and simulate effects of various management options. In most existing management models, the surplus production of a stock is assumed to be a relatively constant function of stock size. Recent events have shown this assumption to be inadequate under conditions of environmental perturbation.

The Fishery/Environmental Modeling and Forecasting Task provides an integrated multidisciplinary approach toward improving the situation. The collocation with FNOC offers massive data resources and computing facilities to yield the needed large time and space scale coverage. An innovative approach has been developed which addresses the extremely difficult problem of establisheing the factors controlling reproductive success through seasonal/geographical comparative studies; this approach complements the experimental and observational programs of the SWFC Coastal Division. The generation of specially-tailored environmental index series at PEG has resulted in useful application to a number of important U.S. fishery stocks.

The methodologies developed have applications to other fisheries beyond the eastern boundary current systems. Understanding of fishery/environmental relationships impact not only goal A of the NMFS Strategic Plan, conserve and manage fishery resources, but also goal B, maximize the economic and social benefits from U.S. fishery resources, and goal D, conserve marine habitats and associated ecosystems.

IMPACT IF TASK/PROGRAM NOT CONTINUED

A promising approach toward progress in incorporating environmental effects in fishery management proceedures will not be utilized. A unique combination of multidisciplinary expertise and informational resources will be disbanded, adversely affecting the ability to deal with and manage climate related impacts on our fishery resources, goal A. The broader benefits derived from the methodologies developed by this task will not be available in attainement of goals B and D of the Strategic Plan.

FMC	REF. NO.	ADD. ID
SWC	092	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
7/329.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

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TITLE	CS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
OCEANOGRAPHER, CHIEF, PEG	15	SECKEL, G.	79385	1.0
OCEANOGRAPHER, TASK LEADER	13	BAKUN, A.	03601	1.0
FISHERY BIOLOGIST	13	PARRISH, R.	67262	1.0
OPERATIONS RESEARCH ANALYST	13	MENDELSSOHN, R.	59905	1.0
OCEANOGRAPHER	12	HUSBY, D.	41986	1.0
OCEANOGRAPHER	13	SUND, P.	87346	1.0
STATISTICIAN	9	MALLICOATE, D.	54734	1.0

FMC	REF. NO.	ADD. ID.
SWC	092	PEG
TOTAL FTE (FTP)/TOTAL $(K)		
7/329.7		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.	O	Dynamics of variation in the California Current System		X-	--	--	--	--	--	--	--	--	--	--	--	--	-X
A	1	.	M	Preliminary diagnostic model of seasonal flow pattern in California Current						X									
A	1	.	O	Eastern boundary current comparative study		X-	--	--	--	--	--	--	--	--	--	--	-X		
A	1	.	M	Display of temperature, Ekman transport, and turbulent mixing off Peru - Chile					X										
A	1	.	M	Seasonal patterns of geostrophic flow and stability in California Current					X										
A	1	.	M	California Current stability and turbulent mixing characteristics related to anchovy spawning						X									
A	1	.	M	Marine surface data distributions for the Canary Current region							X								
A	1	.	M	Geostrophic flow and stability distributions for the Canary Current region							X								
A	1	.	M	Preliminary California Current/Peru Current Comparison						X									
A	1	.	O	Development and interpretation of ocean indicator systems		X-	--	--	--	--	--	--	--	--	--	--	--	--	-X
A	1	.	O	Analysis of factors affecting growth, mortality, and recruitment of California Current fishes		X-	--	--	--	--	--	--	--	--	--	--	--	--	-X
A	1	.	O	North Pacific Equatorial Current structure analysis		X-	--	--	--	--	--	--	-X						
A	1	.	O	Evaluation of satellite imagery as inputs to task research activities				X-	--	--	--	X							
A	8	.	O	Support of North Pacific albacore research				X-	--	--	--	--	--	--	--	--	--	--	-X
A	8	.	M	Exploratory data analysis to determine feasibility of empirical albacore forecast								X							
A	1	.	O	Development of fishery modeling methodology		X-	--	--	--	--	--	--	--	--	--	--	--	--	-X
A	1	.	M	Forecast model demonstration projects (west coast crab; Hawaiian demersal)						X									
		.																	

SAC	036.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/ ~~125.9~~ 254.3		

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 14, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett	La Jolla	CA	D. P.	DeMaster	YES XXXNO

TITLE: Assessment of Coastal Marine Mammals for Management

TASK ALLOCATION	TASK # 1	TASK # 2	TASK # 3	TASK # 4	TOTALS
	88C4H6A0				
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					125.9 254.3
FTE (FTP)					2.0
FTE (OTFTP)					2.3

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	C	2	1									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)	C	2	2									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)	C	4										
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

OMB NO. USE ONLY		
ACTION	DATE	INITIAL
Original Received		
Reviewed		
Entered (AUP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (AUP)		
Verified (P.O.)		

SWC	096.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/ 125.9		

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

August 14, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
Izadore Barrett	La Jolla	CA	D. P.	DeMaster	YES XXXNO

TITLE: Assessment of Coastal Marine Mammals for Management

TASK ALLOCATION	TASK # 1 88C4H6A0	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					125.9
FTE (FTP)					2.0
FTE (OTFTP)					2.3

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	C	2	.1			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	C	2	.2			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
	C	4	.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												
			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

MMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (AUP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (AUP)		
Verified (P.O.)		

FRC	REF. NO.	ADD. ID.
SWC	096.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/254.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION
&
OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 14, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Coastal Marine Mammal Project (CMMP) of the SWC is in its third year of existence. The long-term objectives of this program are to conduct research on the population biology and ecology of coastal marine mammals to obtain information necessary to determine the status of stocks off California and to provide advice on the effects of conflict activities on these stocks.

For the high and moderate priority species, research will be directed to identify trends in the rate of population change (RPC) and changes in the distribution of a particular species. For species where young are whelped in breeding colonies, pup counts will be used to index the RPC (i.e., California sea lion, Zalophus, and northern elephant seal, Mirounga). For species where young are whelped on land, but not in colonies (i.e., harbour seal, Phoca), repeated counts (mean of 5 consecutive counts) will be used to index the RPC. For all cetacean species, line-transect surveys will be conducted annually. Specific attention will be given to designing additional studies to discriminate between coastal and offshore bottlenose dolphins, Tursiops, and to discriminate between seasonal aggregations of transient and resident pilot whales. In addition, aerial surveys to detect changes in distribution will be a high priority for all species. Absolute abundance estimates will only be made for those populations that are considered optimum and exposed to a significant take. Studies on stock discreteness will be conducted on all specimen material available. If necessary, tagging studies will be initiated.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

In FY82, the second year of data on pup production for Zalophus and Mirounga will be collected. This information will be written up as a technical paper. Information on the distribution of pinnipeds in the Southern California Bight will be compiled and written up as a technical paper. Replicate surveys of hauled out harbor seals by California Fish and Game (under contract) and information on fisheries/marine mammal interactions will be included in an annual report that will be available as an Administrative Report. The results of a study on sighting methodology on small cetaceans will be analyzed and written up into a technical paper. The Marine Mammal Salvage Program will produce an annual report. Two papers will be presented at scientific meetings, and four papers will be submitted for publication in peer-reviewed journals.

FMC	REF. NO.	ADD. ID.
SWC	096.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/254.3		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 14, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The Marine Mammal Protection Act (MMPA) and the Endangered Species Act (ESA) mandate that the National Marine Fisheries Service (NMFS) is responsible for managing population of pinnipeds (excluding walrus) and cetaceans that occur within 200 miles of territorial claims of the United States. These two acts further put a moratorium on the taking of any marine mammals by a U.S. citizen, unless specifically exempted within the MMPA. Permits to take for public display, incidental to a fishery, or for research may be issued by the NMFS, but only if a determination concerning the present status of a particular marine mammal population has been made.

It is, therefore, necessary that the research proposed by the CMMP be carried out in order that scientifically acceptable assessments of a population's status is made for coastal species of marine mammals. At present, information is not available to determine either the absolute population size or the relative status of a population to the carrying capacity for any marine mammal species that occur off the coast of California. If the proposed research is carried out, assessments for all of the high and moderate-priority species should be available by 1985. These assessements are necessary in order to return the management of marine mammals to the State of California. This program also provides all of the information on fishery/marine mammal interactions that is available for California.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The proposed research plan is directed at providing information so that decisions can be made concerning whether or not populations of marine mammals that occur off the coast of California are at OSP. If the proposed research is not done, information will not be available to properly assess these populations. It is likely that management can not be returned to the State of California under this condition. Also the level of take of marine mammals and damage to catch by marine mammals will not be monitored.

FNC	REF. NO.	ADD. ID.
SWC	096.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/254.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
8/14/81
PAGE
4 OF 5

NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	2	.1		Survey party-boat users as to interference from Zalophus (contract)		x													
C	2	.1		Study techniques to reduce damage to gear and catch (contract)			x			x									
C	2	.1		Monitor interaction in Klamath River Salmon fishery (contract)				x		x									
C	2	.1		Annual report of previously listed events					x				x						
C	2	.2		Conduct surveys of pup production of Zalophus			x				x								
C	2	.2		Conduct surveys of pup production of Mirounga		x				x									
C	2	.2		Conduct 5-day replicate counts of Phoca			x				x								
C	2	.2		Conduct sighting-methodology on small cetaceans			x				x								
C	2	.2		Conduct tagging studies on Zalophus, Mirounga and Phoca			x				x								
C	2	.2		Continue salvage work on stranded marine mammals		x				x									
C	2	.2		Complete review of available pup production data on Zalophus and Mirounga		x													
C	2	.2		Complete revision of pup population of Zalophus and Mirounga, in 1981 and 1982				x											
C	2	.2		Complete analysis of 5-day counts on Phoca				x											
C	2	.2		Complete analysis of sighting methodology work on small cetacean				x											
C	2	.2		Present two papers at two scientific meetings on reproduction					x										
C	2	.2		Initiate radio tagging study on Phoca		x													
C	2	.2		conduct photogrammetic study on channel Islands					x										
C	4	.1		Renegotiate contract with CF&G on marine mammal studies			x				x				x				

FMC	REF. NO.	ADD. ID
SWC	096.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/254.3		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 14,1981
PAGE
5 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Supervisory Wildlife Biologist	13/2	DeMaster, D.P.	38172	100
Fishery Biologist (General)	11/4	Oliver, C. W.	66103	100

FMC	REF. NO.	ADD. ID.
SWC	110.00	
TOTAL FTE (FTP)/TOTAL $(K)		
0/52.0		

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

1981

August 14, 1981

PAGE 1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	PRINCIPAL LOCATION STATE	CONTACT INIT.	CONTACT LAST NAME	VESSEL REQUIREMENT
Richard S. Shomura	Honolulu	HI	R. F.	Sumida	YES / NO

TITLE: Pacific Observer Program

TASK ALLOCATION	TASK # 1 88A3J4EJ	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					52.0
FTE (FTP)					0
FTE (OTFTP)					3.0

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	2	2									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)		.			.			.			.	
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)		.			.			.			.	
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)		.			.			.			.	
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	110	
TOTAL FTE (FTP)/TOTAL $(K)		
0/52.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The primary responsibility of this task is to effectively manage the Foreign Vessel Observer Program as required by the Magnuson Fishery Conservation and Management Act (MFCMA). The goal is to provide observers aboard as many foreign vessels as possible that receive permission to enter and fish within the fishery conservation zones of the Hawaiian Islands, American Samoa and Guam -- Northern Marianas. Specific objectives include the recruitment and training of observers in all facets of their responsibilities, the learning of the Enforcement Management Information System (EMIS), preparing of reports and fishery statistic summaries.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The specific output/performance measure of this task is to place observers on as many foreign vessels fishing within our FCZ as necessary to meet the requirements of the MFCMA. Observers will collect biological as well as compliance data while aboard the foreign fishing vessels.

FMC	REF. NO.	ADD. ID.
SWC	110	
TOTAL FTE (FTP)/TOTAL $(K)		
0/52.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 5, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

With the passage of the MFCMA, the United States has exclusive management authority over all fishing resources within 200 miles of our shores except for the highly migratory species of tunas.

The EIS/FMP for the Seamount Groundfish Fishery Resources and the Pacific Billfish and Oceanic Sharks for the U.S. Fishery Zone within the purview of the Western Pacific Regional Fishery Management Council require that all foreign vessels carry a U.S. observer to collect relevant fishery information and to collect compliance information. These data are necessary for the preparation and revision of fishery management plans and to ensure the accuracy of foreign catch reports and compliance with the Foreign Fishing Regulations.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this program were to be discontinued, we would not be able to carry out the mandate of the U.S. Congress under the recently passed legislation, the Full Observer Coverage Under the American Fisheries Promotion Act (AFPA).

FMC	REF. NO.	ADD. ID
SWC	110	
TOTAL FTE (FTP)/TOTAL $(K)		
0/52.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Biological Technician	5	Barnett, W.B.	04518	100%
Biological Technician	5	Shippen, N.T.	80833	100%
Biological Technician	5	Tribble, G.W.	90876	100%

FMC	REF. NO.	ADD. ID.
SWC	110	
TOTAL FTE (FTP)/TOTAL $(K)		
0/52.0		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
5 OF 5

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	2	.0	0	Provide observers on foreign vessels															X
A	2	.0	0	Provide observers on commercial fishing vessels															X
A	2	.0	M	Prepare observer reports at the completion of a fishing trip															X
A	2	.0	0	Submit compliance report to enforcement agent (when applicable) during debriefing session															X
A	2	.0	0	Revise and update FVOP Field Manual - continuous															X
A	2	.0	M	Prepare photographic guides of the most commonly caught fishes for the Seamount and longline Fisheries										X					
A	2	.0	M	Publish Management Information Plan of the Foreign Fishing Observer Program									X						

FMC	REF. NO.	ADD. ID.
SWC	115.00	
TOTAL FTE (FTP)/TOTAL $(K)		
5/325.6		

111562

CURRENT YEAR OPERATIONS PLAN

RESOURCE SUMMARY

(dollar amount in thousands)

DATE

August 14, 1981

PAGE

1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	
RICHARD T. SUMMURA	Honolulu	HI	J. P.	Polovina	YES / NO

TITLE: Resource Assessment Investigation of the Mariana Archipelago

TASK ALLOCATION	TASK # 1 88A2H800	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					325.6
FTE (QTFTP)					6.0
					3.5

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	A	1	5									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(QTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (QTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	115.00	
TOTAL FTE (FTP)/TOTAL $(K)		
5/325.6		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
2 OF 5

SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The primary objective of this Task is to undertake a multi-year survey and assessment investigation of the marine resources in waters around Guam and the Commonwealth of the Northern Mariana Islands (NMI). The data generated from these surveys will be used in studies to (1) define the fishery resources that exist in waters around Guam/NMI; (2) estimate the magnitude of the existing resources and the probable levels of harvest of the fishable stock; and (3) define the distribution, availability, and seasonal variation in abundance of those species that show potential for commercial exploitation. The current year objectives include (1) development of a comprehensive planning document and sampling plan for the resource assessment survey, (2) development of a data management system to store and analyze survey data, (3) preparation of a background document which would aid in survey planning, (4) establishment of a field station in Guam to assist the Honolulu Laboratory in cruise coordination and preparation, (5) examination of the Task's sampling design after the completion of the early field work for possible revision, and (6) development of cruise schedules, cruise instructions, and cruise assignments for scientific personnel who will be conducting the topographic surveys, environmental assessments, and fishery resource surveys.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

The output for the current fiscal year will be measurable in terms of the cruise and narrative reports generated, the completion of the comprehensive planning document, and completion of the background document. It is anticipated that progress reports will also be generated for presentation at meetings of RAIOMA (Resource Assessment Investigation of the Mariana Archipelago), an informal body representing various segments of government and with vested interest in this investigation, and at meetings convened by the Western Pacific Regional Fishery Management Council. Immediate benefits are not foreseeable for the near future; however, long-range benefits would be reflected in increased fish production, increased consumption of locally caught fish, job availability in the fishing and related industries, strengthening of the fragile island economy, development of export markets, and conservation and management of the islands' fishery resources.

FMC	REF. NO.	ADD. ID.
SWC	115.00	
TOTAL FTE (FTP)/TOTAL $(K)		
5/325.6		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 5, 1981
PAGE
3 OF 5

DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

The U.S. Government has direct responsibility for the island Governments of Guam and the Commonwealth of the Northern Mariana Islands. For generations, these islanders depended on the fishery resources in their waters for some of their protein needs, but today production is at such a low level that much of the demand for fish and fish products are met by imports.

The need for survey and assessment of the insular fishery resources around Guam and the NMI is recognized under the Magnuson Fishery Conservation and Management Act of 1976. Passage of the MFCMA focused attention on the marine resources within 200 miles of these islands, but it soon became apparent that very little information and data had been accumulated over the years on the marine resources of commercial value. Although target species could be identified very little was known about their distribution, seasonal availability, relative abundance, and life histories. Lack of information became a critical problem when Fishery Management Plans were being prepared. Therefore, in the interest of developing sound Fishery Management Plans for the Western Pacific Regional Fishery Management Council, it is imperative to conduct this resource survey and assessment and develop an extensive data base on which sound management could be based.

IMPACT IF TASK/PROGRAM NOT CONTINUED

If this Task were to be discontinued, the immediate adverse impact would be political repercussions from the heads of Government in Guam and the NMI. At this time, neither government has sufficient funds, research facilities, research vessels, and experienced and highly trained scientific investigators to carry out a thorough investigation on its own. Therefore, the island governments look to the U.S. Government to provide funds, supplies, equipment, scientific talent, leadership and experience to do a competent job. It is also probable that should the Task be discontinued, the Government of the NMI may explore other avenues of assistance in developing their fishery resources, perhaps calling upon a foreign power to conduct a fishery survey.

FMC	REF. NO.	ADD. ID
SWC	115.00	
TOTAL FTE (FTP)/TOTAL $(K)		
5/325.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)

(dollar amount in thousands)

DATE
August 14, 1981
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4 OF 5

TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Investigation Chief	14/1	Vacant		100
Statistician	12/3	Polovina, J.	69871	100
Fishery Biologist (Research)	11/2	Shiota, P.	80790	100
Biological Technician (Fisheries)	6/3	Moffitt, R.	62170	100
"	6/3	Tagami, D.	88082	50
"	6/3	Honda, V.	40125	50
Fishery Biologist (Research)	11/1	Vacant		100

FMC	REF. NO.	ADD. ID.
SWC	115.00	
TOTAL FTE (FTP)/TOTAL $(K)		
5/325.6		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 5, 1981
PAGE
5 OF 5

NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	1	.5	0	Establish Guam field station.			x												
A	1	.5	M	Complete planning document and sampling plan		x													
A	1	.5	0	Conduct cruises and produce cruise reports.				x	x	x				x	x	x			
A	1	.5	0	Complete background document		x													
A	1	.5	0	Establish data management system.			x												
		.																	
		.																	
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		.																	

FMC	REF. NO.	ADD. ID.
SWC	119.00	
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/112.0		

FY1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
August 1?, 1981
PAGE
1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION		CONTACT		VESSEL REQUIREMENT
	CITY/TOWN/ETC	STATE	INIT.	LAST NAME	YES / NO
Richard S. Shomura	Honolulu	HI	W. G.	Gilmartin	

TITLE: Marine Mammal & Endangered Species Investigation

TASK ALLOCATION	TASK # 1 88C5H100	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					112.0
FTE (FTP)					2.0
FTE (OTFTP)					0.4

GOAL/OBJECTIVE ALLOCATION	NG	NO	SO	NG	NO	SO	NG	NO	SO	NG	NO	SO
	C	3	.1			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)						.			.			.
	C	3	.2									
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE(OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)			.			.			.			.
GRANTS AND CONTRACTS												
TOTAL DIRECT FUNDS												
FTE (FTP)												
FTE (OTFTP)												

NMFS HQ. USE ONLY		
ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC		
TOTAL FTE (FTP)/TOTAL $(K)		
2/118.9		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 13, 1981
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

This plan includes research work on both the endangered Hawaiian monk seal and the endangered and threatened marine turtles in the central and western Pacific.

A draft recovery plan for the monk seal is due by 30 September 1981. That document will permit development of priority research plans during FY82 for future seal research.

The current year work will also include compilation of past work on monk seal feeding habits, completing analysis of scat and spewing specimens collected during the 1980 and 1981 seasons and preparation of a report summarizing all of this information. This report will also include an outline of future needed research on monk seal feeding habits. A plan will also be developed for estimation of the population of monk seals in the Northwestern Hawaiian Islands and for monitoring the status of the population. A treatment for ciguatera intoxication of monk seals will be tested to avert a mass dieoff as occurred in 1978, believed due to ciguatera and a response plan, detailing procedures, personnel, permit requirements, etc. will be completed as a guide in case of a future mass mortality incident.

The turtle work will consist of continuing to monitor breeding growth and migration in the Hawaiian Islands and the western Pacific, and a report will be prepared at the end of FY82 summarizing all of this data collected to date. This will assist in developing a long-range Pacific turtle research plan in FY83.

A draft international Pacific turtle tagging program will be outlined for discussion with interested countries as agreed on at an NMFS/SPC workshop in 1979.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

This program will provide in FY82 a prioritized research/management plan for Monk seals. Known food preference data will be summarized and a plan to complete research on this aspect of the seals needs will be finished. A method for estimation of the monk seal population and techniques for monitoring trends in it will be documented in a report. Data relevant to development og long-range turtle research plans will be summarized in a report and a draft turtle tagging program for the Pacific will be developed.

FMC	REF. NO.	ADD. ID.
SWC		
TOTAL FTE (FTP)/TOTAL $(K)		
2/118.9		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
August 13, 1981
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

This task supports needed research in habitat usage, natural history, and population dynamics on the marine turtles of the Pacific and the Hawaiian monk seal. The turtle species are endangered or threatened and the monk seal is listed as endangered under the provisions of the Endangered Species Act. Therefore, justification for this program originates at the national level but the only research effort devoted to Pacific turtles or the monk seal is this task at the SWC.

This task functions very efficiently as a part of other SWC studies, especially in the Norwestern Hawaiian Islands, Guam, and the Northern Marianas where the NOAA ship Townsend Cromwell is available for movement of personnel and supplies in the field. The majority of the research studies are also at islands where monk seal research and turtle research can be conducted concurrently allowing more cost effective field data collection.

IMPACT IF TASK/PROGRAM NOT CONTINUED

Several impacts must be considered if this task is not restored to base: (1) repercussions because of commitment of SWC to long-term international turtle tagging and resighting program in the Pacific, (2) national concern for loss of habitat use information on endangered and threatened species covered in the task, (3) loss of reproductive data for the year, (4) delays in other research data collection, and (5) delays in implementation of the Monk Seal Recovery Plan.

FMC	REF. NO.	ADD. ID
SWC		
TOTAL FTE (FTP)/TOTAL $(K)		
.2.0/118.9		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

DATE
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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Wildlife Biologist	13	Gilmartin, William G.	31171	100
Fishery Biologist	09	Henderson, John R.	37804	100

FNC	REF. NO.	ADD. ID.
SWC		
TOTAL FTE (FTP)/TOTAL $(K)		
2.0/118.9		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
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NG	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
C	3	.1	M	By 2 Jan. 1982 compile all currently available information on monk seal food preferences.		X													
C	3	.1	M	By 1 Apr. 1982 complete analyses of 1980 and 1981 monk seal scats/spewings			X												
C	3	.1	O	By 1 June 1982 report current status monk seal food preference and plan for future sampling				X											
C	3	.1	O	By 1 Nov. 1981 complete monk seal die-off response plan		X													
C	3	.1	O	By 1 Feb. 1982 complete development of ciguatera treatment regimen for monk seals			X												
C	3	.1	M	By 1 Sept. 1982 complete plan for population assessment of monk seals					X										
C	3	.1	O	By 1 Oct. 1982 complete population assessment of monk seals									X						
C	3	.1	O	By 30 Sept. 1982 develop plans and implementation schedule for SWC assigned monk seal reorganization tasks					X										
C	3	.2	O	By 1 June 1982 develop draft plan for international Pacific turtle tagging program.				X											
C	3	.2	O	By 1 Dec. 1982 survey and report on turtle breeding activity at Rose Atoll.		X													
C	3	.2	O	Continue turtle tagging studies and report summary findings by 1 Sept. 1982					X										
C	3	.2	M	Monitor turtle activity in NWHI, 1982				X											
C	3	.2	O	By 1 Jan. 1983 prepare long-range Pacific trutle research plan for SWC						X									
		.																	
		.																	
		.																	
		.																	
		.																	

FMC	REF. NO.	ADD. ID.
SVC	123.00	

TOTAL FTE (FTP)/TOTAL $(K)

1.4/ 304.2

FY 1982
CURRENT YEAR OPERATIONS PLAN
RESOURCE SUMMARY
(dollar amount in thousands)

DATE
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1 OF 5

APPROVED BY SIGNATURE	PRINCIPAL LOCATION CITY/TOWN/ETC	STATE	CONTACT INIT.	LAST NAME	VESSEL REQUIREMENT
Isadore Barrett	La Jolla	CA	F. J.	Kellenberger	XXX / NO

TITLE: Fishery Information Network

TASK ALLOCATION	TASK # 1 88F6HH	TASK # 2	TASK # 3	TASK # 4	TOTALS
TOTAL DIRECT LABOR					[redacted]
PERSONNEL BENEFITS					
TRAVEL OF PERSONS					
TRANSPORTATION OF THINGS					
RENTS, COMMUNICATIONS & UTILITIES					
PRINTING AND REPRODUCTION					
CONTRACTUAL SERVICES					
SUPPLIES AND MATERIALS					
EQUIPMENT					
GRANTS					
OTHER					
TOTAL DIRECT FUNDS					
FTE (FTP)					304.2
FTE (OTFTP)					1.4
					0.0

GOAL/OBJECTIVE ALLOCATION	TASK # 1 NG / NO / SO	TASK # 2 NG / NO / SO	TASK # 3 NG / NO / SO	TASK # 4 NG / NO / SO
	A / 2 / .1	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	A / 2 / .2	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	/ / .	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				
	/ / .	/ / .	/ / .	/ / .
GRANTS AND CONTRACTS				
TOTAL DIRECT FUNDS				
FTE (FTP)				
FTE (OTFTP)				

NMFS HQ. USE ONLY ACTION	DATE	INITIALS
Original Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		
Revision Received		
Reviewed		
Entered (ADP)		
Verified (P.O.)		

FMC	REF. NO.	ADD. ID.
SWC	123.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1.4/ 304.2		

FY1982
CURRENT YEAR OPERATIONS PLAN
NARRATIVE DESCRIPTION & OUTPUT/PERFORMANCE MEASURES
(dollar amount in thousands)

DATE
August 7, 1981
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SPECIFIC DETAILED NARRATIVE DESCRIPTION OF THE TASK/PROGRAM

The Fisheries Information Network (FIN) is a sophisticated, computer-communications based system, designed to function as the primary data gathering, analysis, inquiry/respository and reporting structure to support the mission and goals of the FCMA for the SWR and SWC. FIN architecture utilizes top-down structure to allow stage-wise implementation of the various functional areas which include environmental, biological, socio-economic, and legal subsystems.

A major initial task requirement is to upgrade raw data input. The states and Western Pacific Islands (WPI) fisheries statistical data systems are inadequate for current data requirements and demands. These systems must be improved to include reliable port sampling techniques, and modern data acquisition and processing equipment. Specifically, this task involves the development of port sampling plans, equipment specification, and procurement and software development. Equipment includes data collection devices, source data automation with "credit card" units, mini/micro processors and data storage and retrieval devices.

Systems software includes data editing, reduction analysis, reporting and retrieval programs and compatibility standards procedures for data transmission.

Data communication protocols, security procedures and confidentiality and cooperative agreements must be developed for the FIN. This is complicated by local state confidentiality regulations.

When the FIN is completely operational it will provide: sampling and data collection procedures for ecological, biological, economic and sociological data; efficient data entry devices and techniques for the states and WPI's statistical data systems; an integrated FIN and FISHNET communication network; a recreational fisheries data system; a commercial fisheries support system; improved southwest market news system; data bases for coordination and planning activities of State and Federal agencies; and the information, reporting needs for the West Coast Regional Councils. FIN design architecture allows each subsystem (environmental, biological, socio-economic and legal) to become operational as it is completed.

SPECIFIC OUTPUT/PERFORMANCE MEASURES OF THE TASK/PROGRAM

Major products/services for this stage include: a port sampling study and plans for biological and environmental data collection in California; upgraded data collection techniques and procedures for California including an improvement in data timeliness by a factor of one year. Source data automation with a "credit cart" data entry system to improve data quality and reduce data entry costs; data editing software development and implementation; data collection in the Western Pacific, and the development of a distributive fishery system in the California and Hawaii area.

FMC	REF. NO.	ADD. ID.
SWC	123.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1.4/ 304.2		

FY1982
CURRENT YEAR OPERATIONS PLAN
JUSTIFICATION & IMPACT

(dollar amount in thousands)

DATE
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DETAILED JUSTIFICATION FOR THE TASK/PROGRAM

This task is to implement a comprehensive southwest cooperative fishery data,, fishery statistics, and fishery information network. The Southwest Fishery Information Network (FIN) is a cooperative effort that includes the SWC (laboratories/divisions), SWR, State of California, State of Hawaii, and the Western Pacific Islands. The FIN is a sophisticated large-scale system that involves system procedures and equipment for the collection, processing, storing, retrieval, and security of ecological, biological, economical, sociological, and legal data required for planning, management and enforcement. The FIN upgrades the states' statistical systems to satisfy the information requirement of FCMA and will provide adequate and timely information to the SWR, SWC, planning teams, and the Regional Councils in the development and monitoring of fishery plans.

In recent years, there has been a great upsurge in the demand for data about fishery in the southwest. There has never been an over-all comprehensive approach to fishery data in the southwest; they have been developed piecemeal. Comparability between one area and another or between one time period and another for the same area, has been severely restricted or impossible. We expect the FIN to make us more cost effective and better able to manage and take advantage of the myriad of socio-economic and data management initiatives being undertaken by the Center and Regional office, NMFS Washington office, Pacific Marine Fisheries Commission, Councils, states, and others. By implementation of the FIN we would be able to sustain a cooperative efficient system of data collection, processing, and dissemination in the region, in support of the FCMA and other needs.

IMPACT IF TASK/PROGRAM NOT CONTINUED

The SWC and SWR would be unable to provide timely and quality data to NMFS, planning teams, and the Regional Councils in the development and monitoring of fishery plans. If this task is discontinued then the SWC would be unable to support the major national goals.

FMC	REF. NO.	ADD. ID.
SWC	123.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1.4/ 304.2		

FY1982
CURRENT YEAR OPERATIONS PLAN

MILESTONE - OUTPUT PLANNING FORM
(dollar amount in thousands)

DATE
August 7, 1981
PAGE
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NC	NO	SO	T	MILESTONE - OUTPUT/PRODUCT/SERVICE DESCRIPTION	YEAR	CY 82				BY				BY+1		BY+2		BY+3	
					MONTH	3	6	9	12	15	18	21	24	30	36	42	48	54	60
A	2	.1	0	Implementation of West Coast Groundfish System				X											
A	2	.1	0	Implementation of West Coast Shrimp System						X									
A	2	.1	0	Implementation of West Coast Salmon System						X									
A	2	.1	0	Upgrade CDF&G Statistical System								X							
A	2	.1	0	Implement California Credit Card System							X								
A	2	.1	0	Completion of Port Sampling Study for California					X										
A	2	.2	0	Collect Billfish and Tuna Data															X
A	2	.1	0	Support West Coast Data Goals Committee															X
A	2	.2	0	Support Central and Western Pacific Data Goals Comm.															X
A	2	.1	0	Prepare Fishery Data										X					
A	2	.1	0	Develop Distributive System in California								X							
A	2	.2	0	Develop Distributive System in Hawaii								X							
		.																	
		.																	
		.																	
		.																	
		.																	
		.																	

FMC	REF. NO.	ADD. ID
SWC	123.00	
TOTAL FTE (FTP)/TOTAL $(K)		
1.4/ 304.2		

FY1982
CURRENT YEAR OPERATIONS PLAN

FULL - TIME EQUIVALENT
(FULL TIME PERMANENT)
(dollar amount in thousands)

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TITLE	GS LEVEL	INCUMBENT'S NAME (LAST NAME, INITIALS)	EMPLOYEE NUMBER	PERCENT TIME SPENT THIS PROGRAM/TASK
Data Systems Manager	14	Fred Kellenberger	45854	40
Systems Analyst	11	David Hamm	34980	100